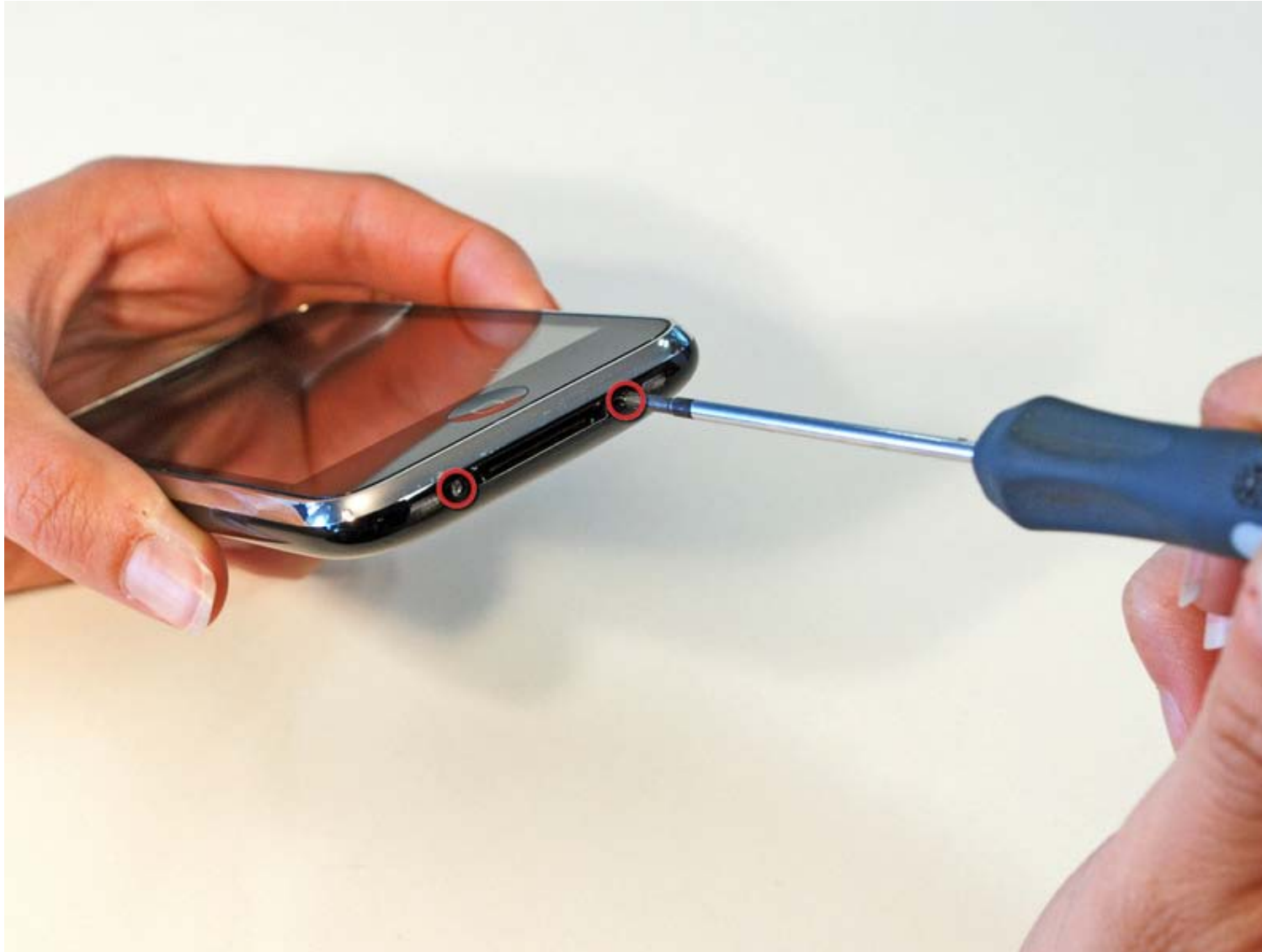




**Step 1**

Remove the two bottom screws with a Phillips #00 screwdriver.

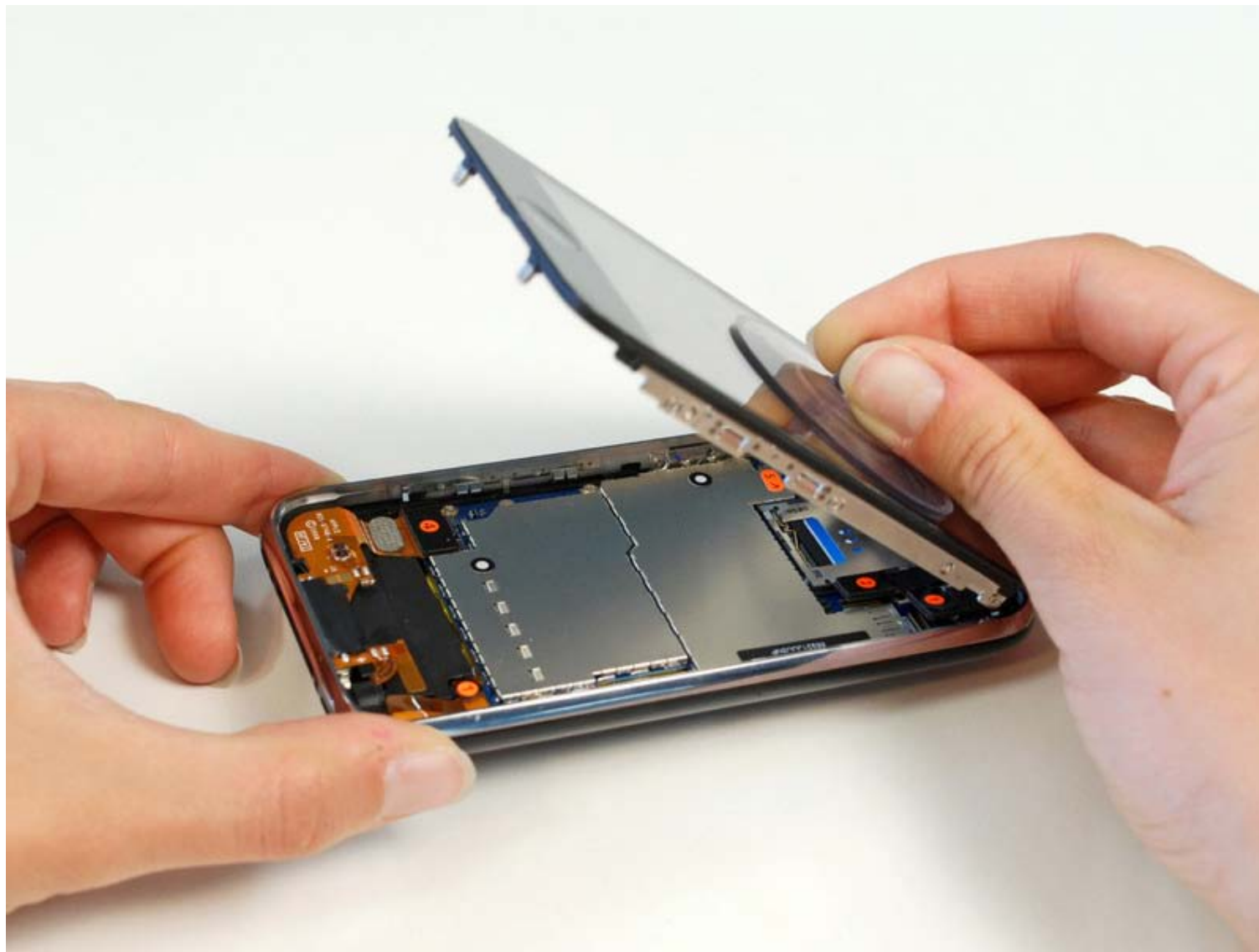


**Step 2**

A small suction cup is your friend. A large suction cup may also be a fun toy.

There are seven numbered connectors on the 3GS, up from six on the 3G. Connector number seven is in the lower right corner, just above the dock connector.







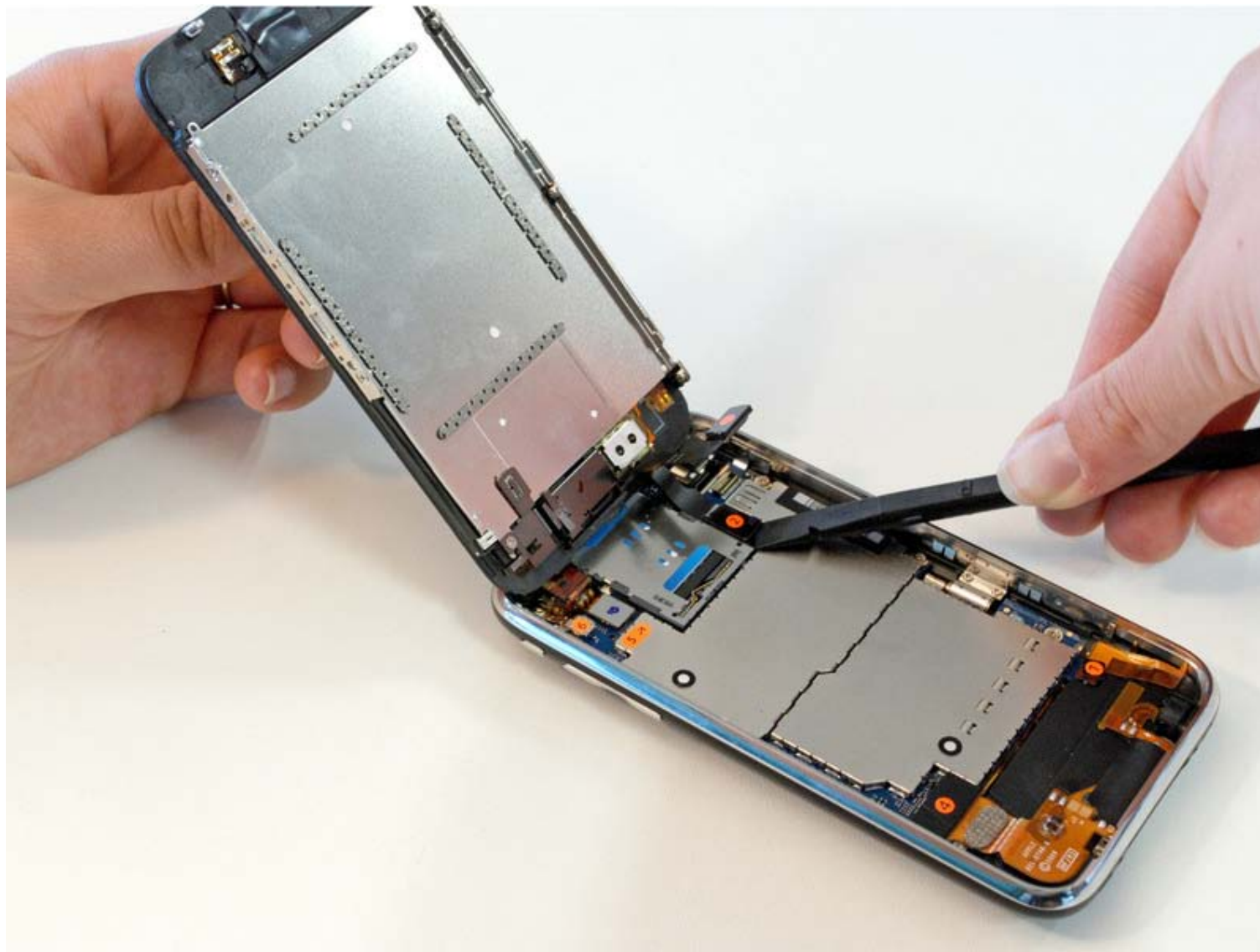


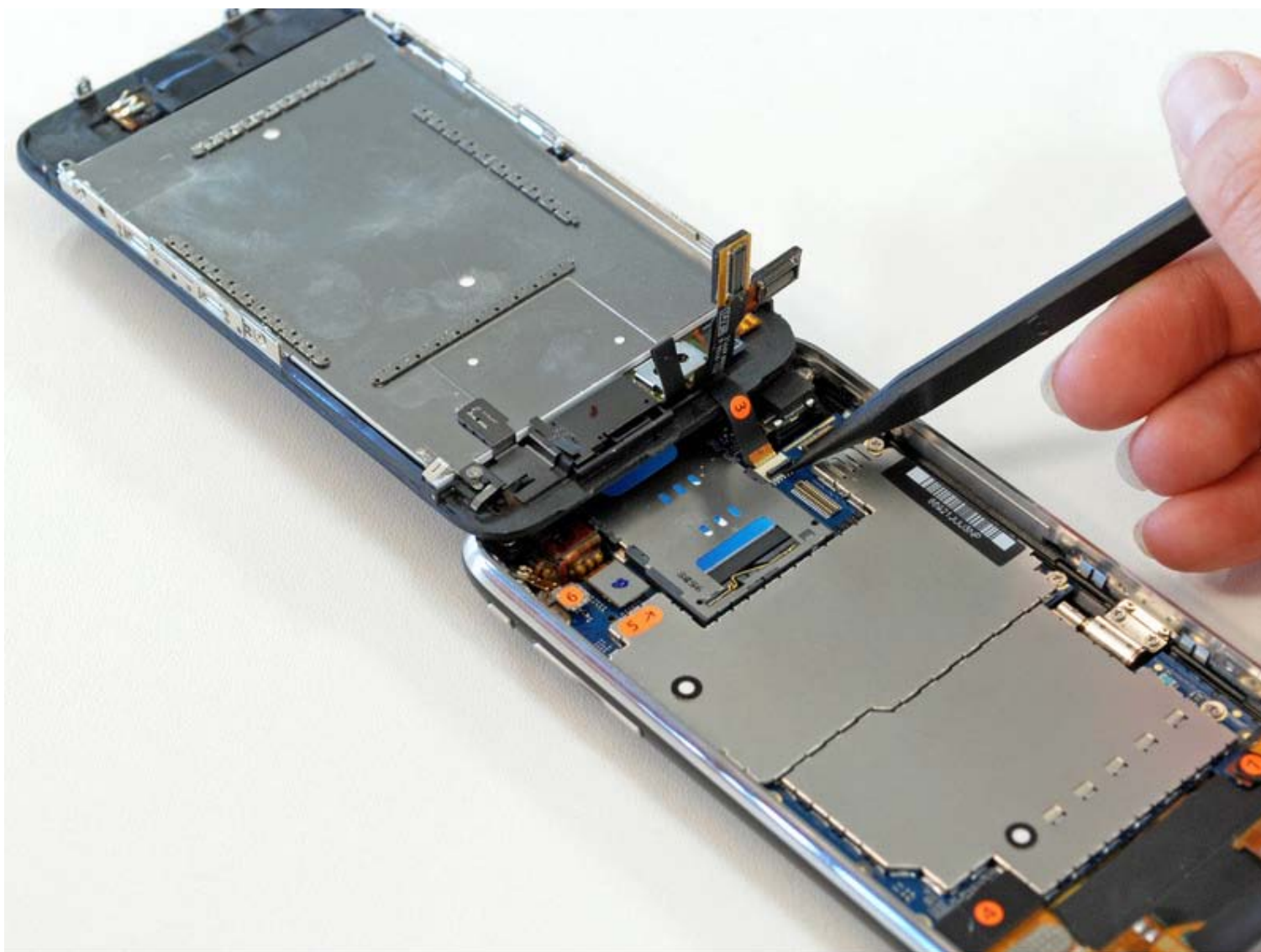
### Step 3

There are three cables holding the LCD and digitizer to the rest of the logic board. Disconnecting them is as easy as 1-2-3.

1. LCD panel
2. Digitizer
3. Ear speaker









#### Step 4

Here's the two halves.

All the chips on the logic board are hidden beneath two large EMI shields. We'll have those removed in just a bit.





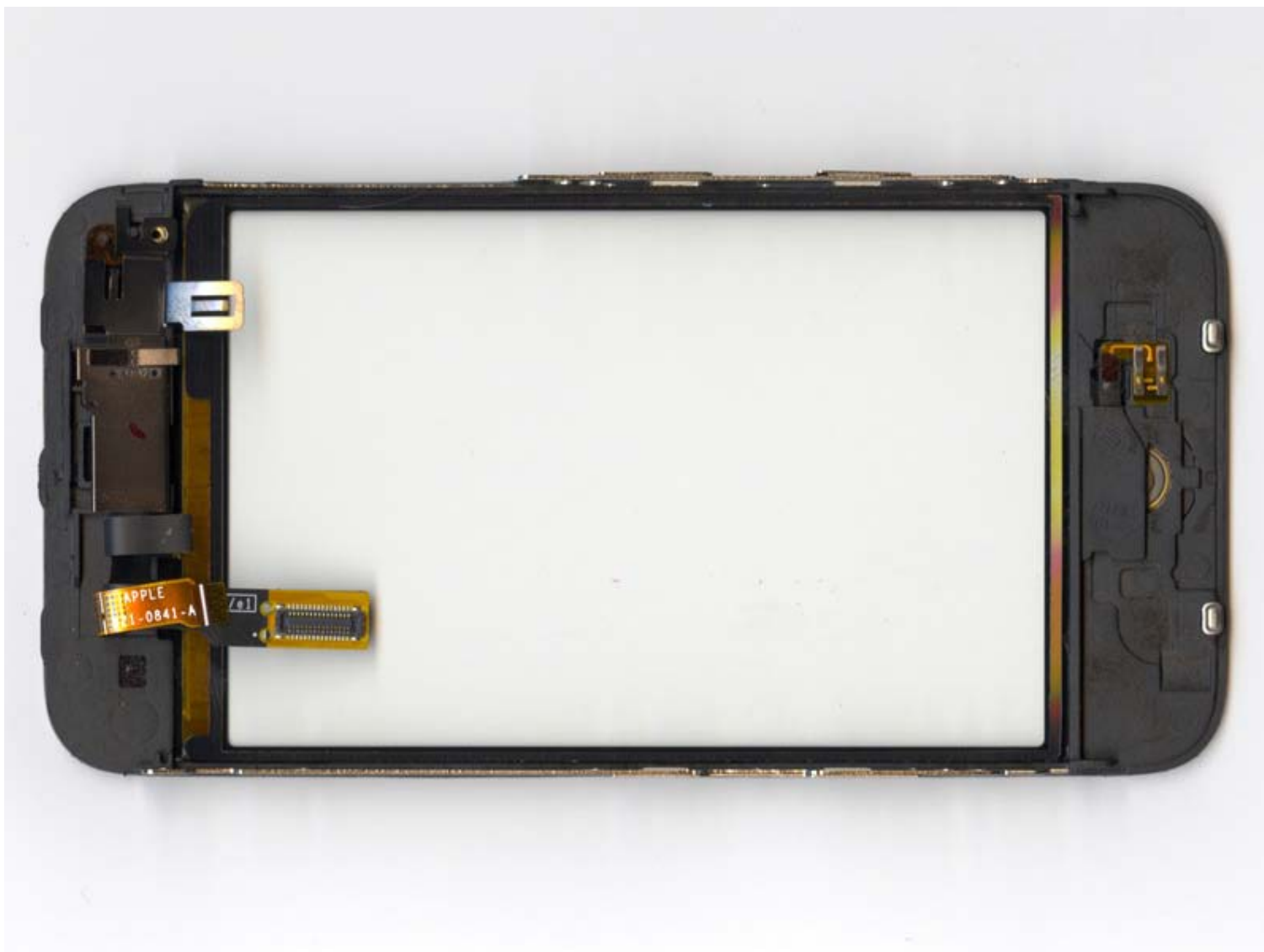
**Step 5**

Just like the iPhone 3G, the LCD is pretty easy to replace. After removing 7 screws, the LCD simply lifts out.

On the iPhone 3G, we see a lot more cracked digitizers than cracked LCDs. Replacing the digitizer is a little more work, and requires breaking out a heat gun or hair dryer.

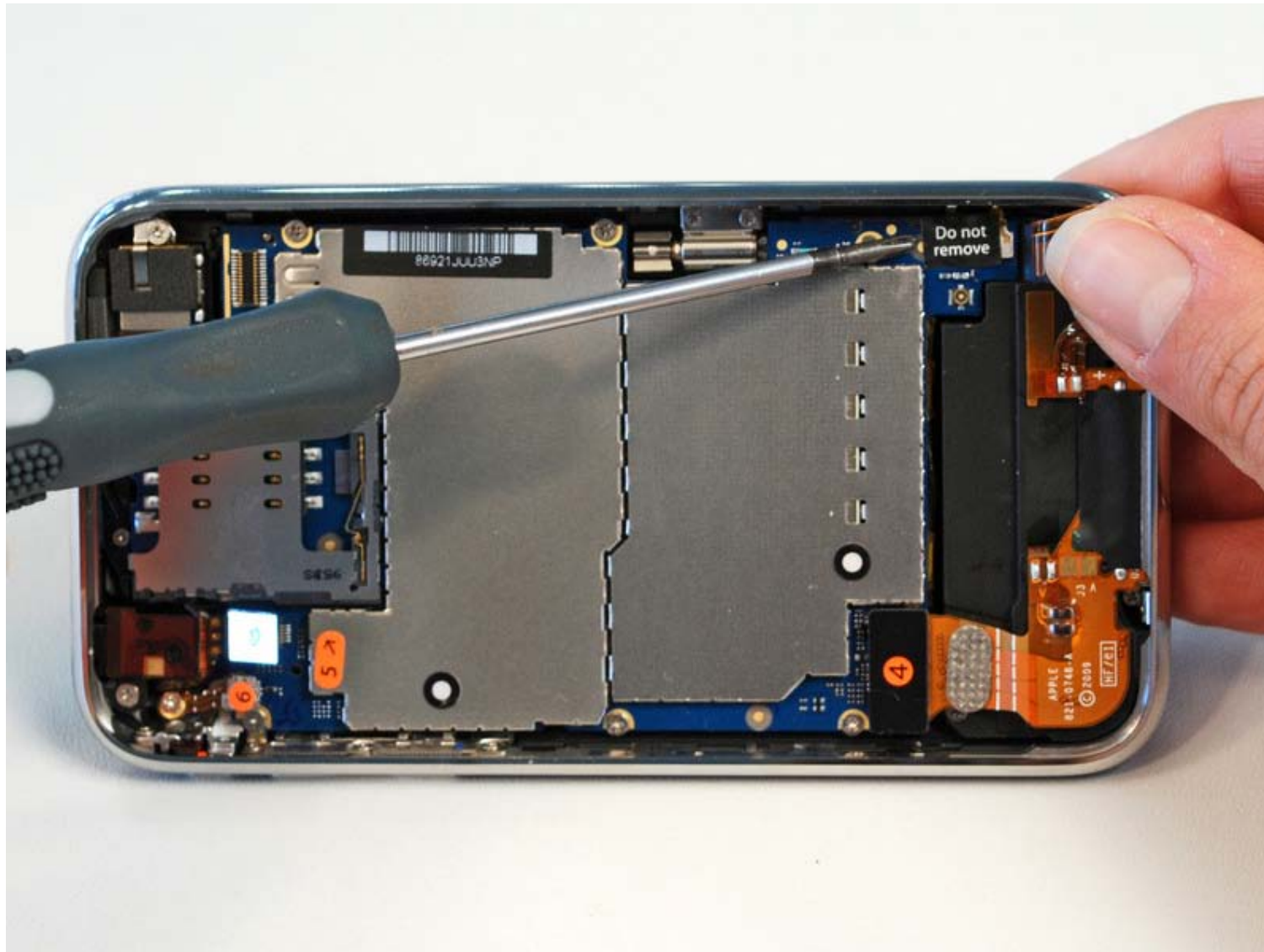






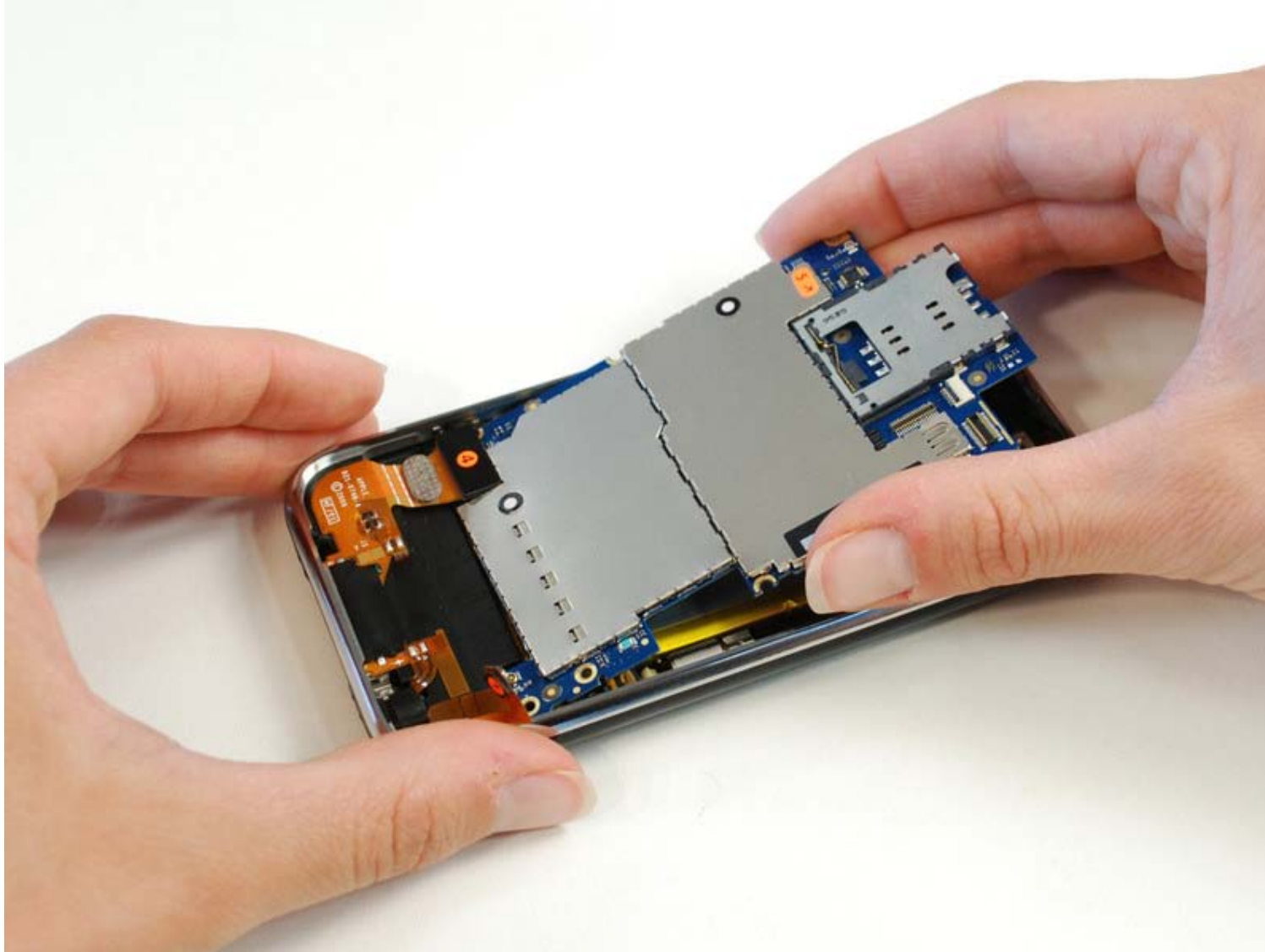
## Step 6

Here's the fabled "Do not remove" sticker.



### Step 7

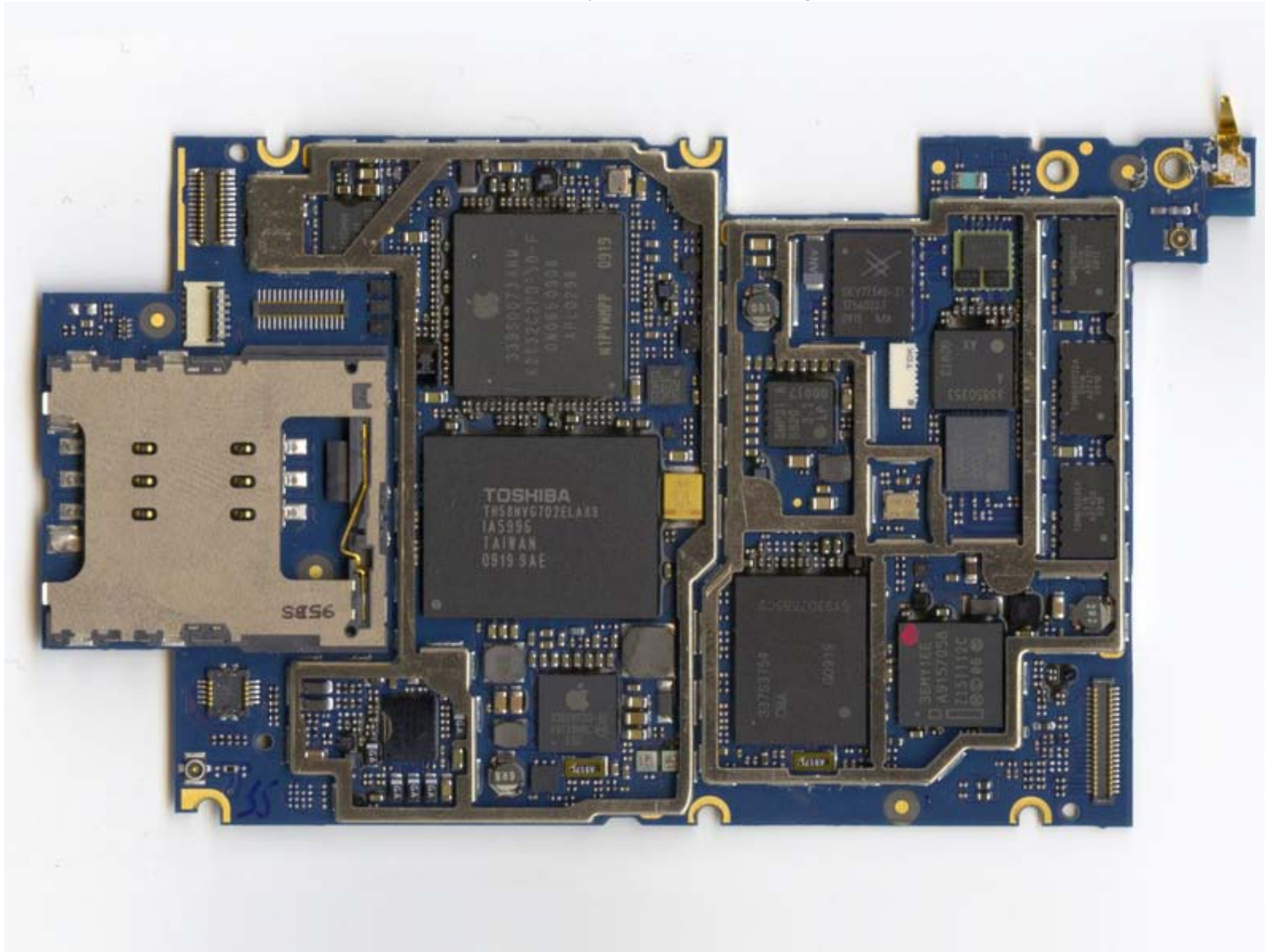
Removing the logic board. Like the 3G, there is a single large PCB with all components.

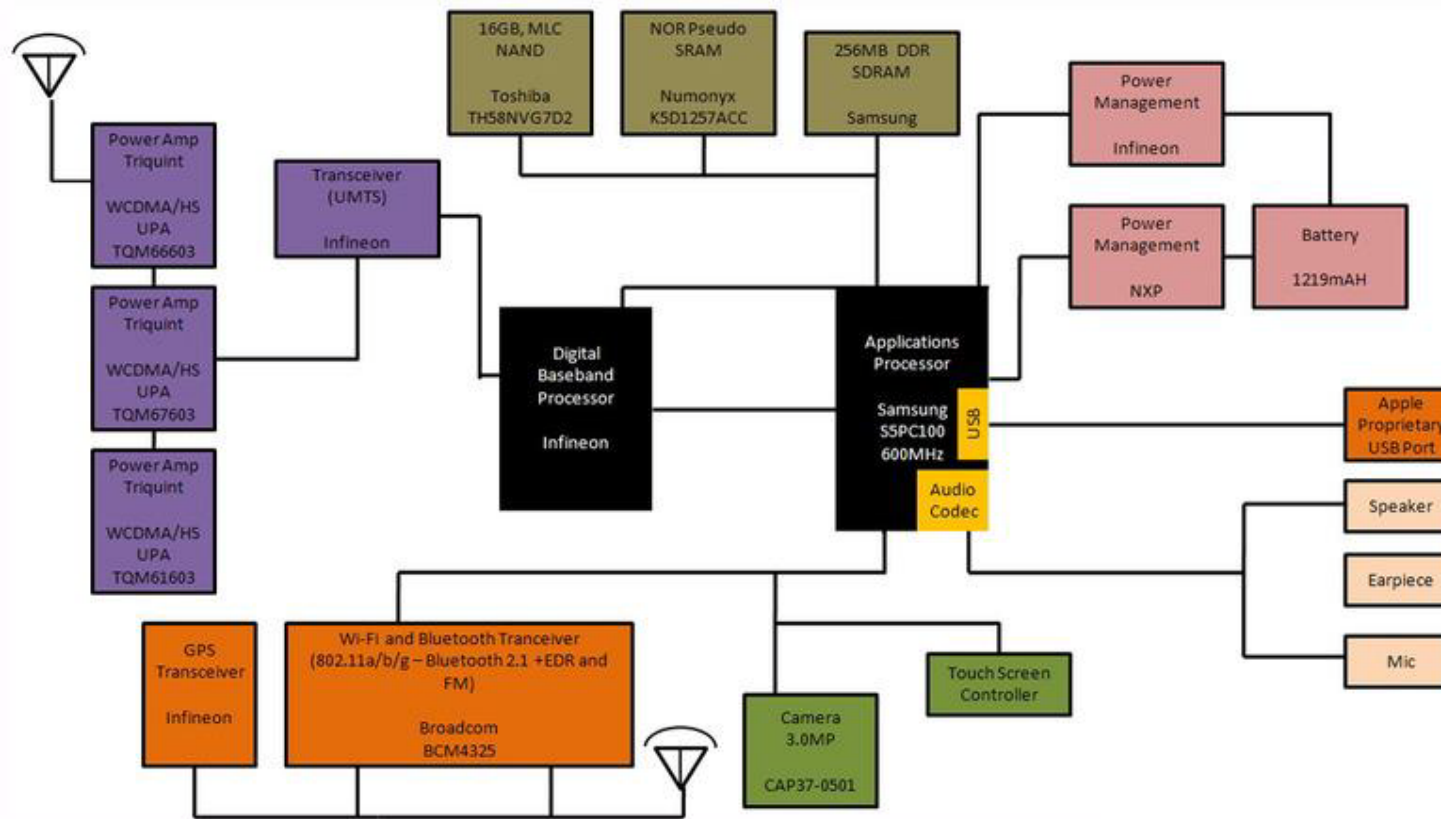




### Step 8

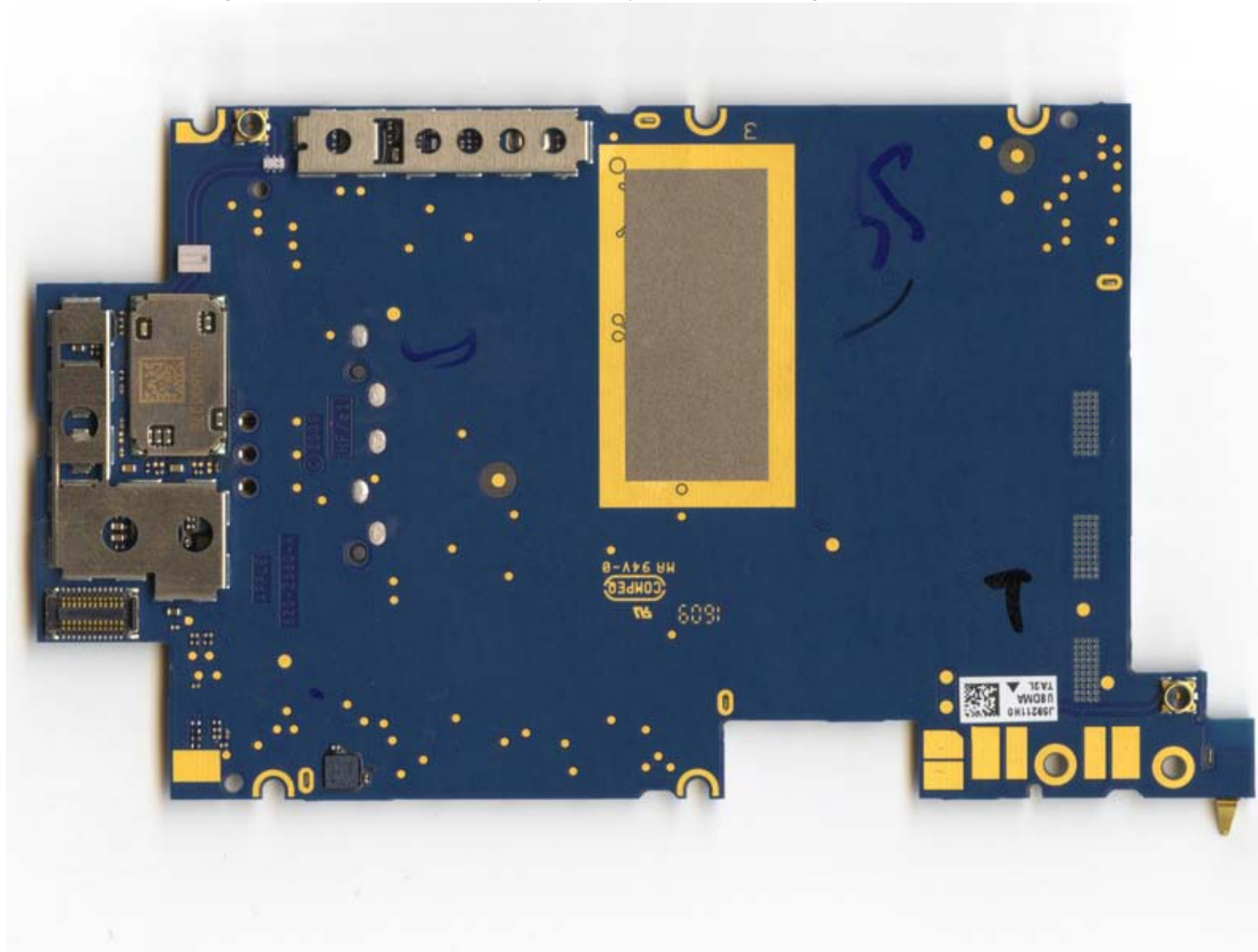
The main logic board. There's a lot packed in here. The Apple-logo chip is the primary Samsung ARM processor. The 16 GB of Toshiba flash are now on the front of the board, just below the Samsung ARM.





### Step 9

The other side of the logic board. You can see the battery contact pads in the lower right corner.



## Step 10









Assembled in China  
APN: 616-0435  
VPN: LIS1416APPC  
Li-ion Polymer Battery: 3.7V 4.51Whr

**WARNING**

Potential for fire or burning.  
Do not disassemble, puncture,  
crush, heat, or burn.



Li-ion



YW9207917A02ZF



+ SE W US374169 A9H 02B134RD25B 7A1

**Step 11**

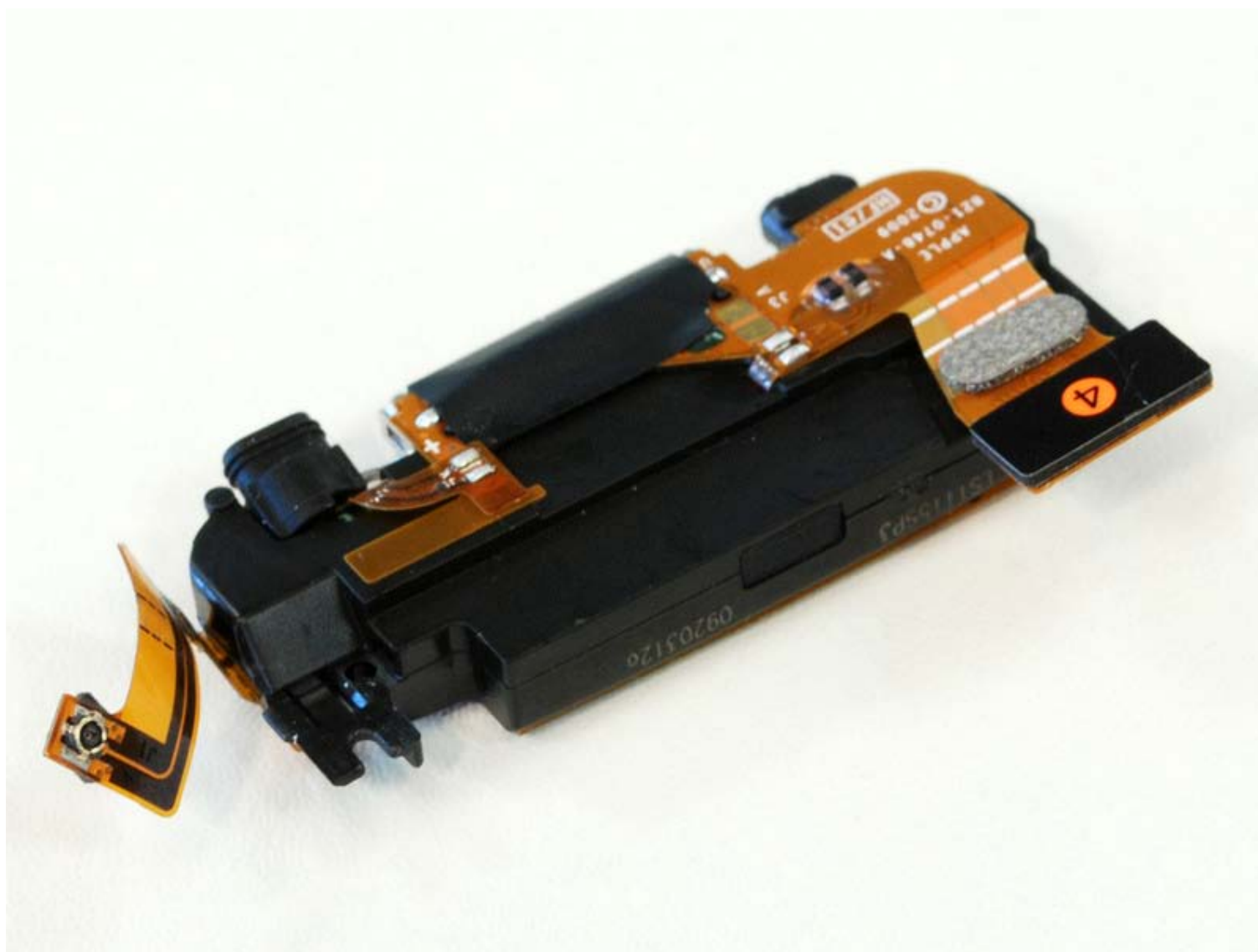
The 3GS records video at 640x480 resolution and 30 fps.



### Step 12

The 3GS offers Voice Control.







# iPhone 3G

Important Product  
Information Guide



This *Important Product Information Guide* contains safety, handling, disposal and recycling, regulatory, and software license information, as well as the one-year limited warranty for iPhone.

Look for recycling, disposal, and other environmental information in the *iPhone User Guide* at: [support.apple.com/manuals/iphone](http://support.apple.com/manuals/iphone)



Read all safety information below and operating instructions before using iPhone to avoid injury. For detailed operating instructions read the *iPhone User Guide* on your iPhone by visiting [help.apple.com/iphone](http://help.apple.com/iphone) or using the iPhone User Guide bookmark in Safari. For downloadable versions of the *iPhone User Guide* and the latest version of this *Important Product Information Guide*, visit: [support.apple.com/manuals/iphone](http://support.apple.com/manuals/iphone)

## Important Safety Information

**WARNING:** Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage.

**Handling iPhone** Do not drop, disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate, paint, or insert foreign objects into iPhone.

**Avoiding Water and Wet Locations** Do not use iPhone in rain, or near washbasins or other wet locations. Take care not to spill any food or liquid on iPhone. In case iPhone gets wet, unplug all cables, turn off iPhone (press and hold the Sleep/Wake button, and then slide the onscreen slider) before cleaning, and allow it to dry thoroughly before turning it on again. Do not attempt to dry iPhone with an external heat source, such as a microwave oven or hair dryer. An iPhone that has been damaged as a result of exposure to liquids is not serviceable.

**Repairing or Modifying iPhone** Never attempt to repair or modify iPhone yourself. Disassembling iPhone, including the removal of external screws, may cause damage that is not covered under the warranty. iPhone does not contain any user-serviceable parts, except for the SIM card and SIM tray. Service should only be provided by an Apple authorized wireless service provider. If iPhone has been submerged in water, punctured, or subjected to a severe fall, do not use it until you take it to an Apple authorized wireless service provider. For service information, choose iPhone Help from the Help menu in iTunes or go to: [www.apple.com/support/iphone/service/faq](http://www.apple.com/support/iphone/service/faq)

**Battery Replacement** The rechargeable battery in iPhone should be replaced only by Apple or an Apple authorized wireless service provider. For more information about battery replacement service, go to: [www.apple.com/support/iphone/service/battery](http://www.apple.com/support/iphone/service/battery)

**Charging iPhone** To charge iPhone, only use the Apple Dock Connector to USB Cable with an Apple USB Power Adapter or a high-power USB port on another device that is compliant with the USB 2.0 or 1.1 standards, another

Apple-branded product or accessory designed to work with iPhone, or a third-party accessory certified to use Apple's "Works with iPhone" logo.

Read all safety instructions for any products and accessories before using with iPhone. Apple is not responsible for the operation of third-party accessories or their compliance with safety and regulatory standards.

When you use the Apple USB Power Adapter to charge iPhone, make sure that the power adapter is fully assembled before you plug it into a power outlet. Then insert the Apple USB Power Adapter firmly into the power outlet. Do not connect or disconnect the Apple USB Power Adapter with wet hands.

The Apple USB Power Adapter may become warm during normal use. Always allow adequate ventilation around the Apple USB Power Adapter and use care when handling. Unplug the Apple USB Power Adapter if any of the following conditions exist:

- The power cord or plug has become frayed or damaged.
- The adapter is exposed to rain, liquid, or excessive moisture.
- The adapter case has become damaged.
- You suspect the adapter needs service or repair.
- You want to clean the adapter.

**Avoiding Hearing Damage** Permanent hearing loss may occur if the receiver, earbuds, headphones, speakerphone, or earpieces are used at high volume. Set the volume to a safe level. You can adapt over time to a higher volume of sound that may sound normal but can be damaging to your hearing. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked. The louder the volume, the less time is required before your hearing could be affected. Hearing experts suggest that to protect your hearing:

- Limit the amount of time you use the receiver, earbuds, headphones, speakerphone, or earpieces at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you can't hear people speaking near you.

For information about how to set a maximum volume limit on iPhone, see the *iPhone User Guide*.

**Emergency Calls** You should not rely on wireless devices for essential communications, such as medical emergencies. Use of iPhone to call emergency services may not work in all locations. Emergency numbers and services vary by region, and sometimes an emergency call cannot be placed due to network availability or environmental interference. Some cellular networks may not accept an emergency call from iPhone if it does not have a SIM, the SIM is PIN-locked, or if you have not activated your iPhone.

**Driving and Riding Safely** Use of iPhone alone or with headphones (even if used only in one ear) while driving a vehicle or riding a bicycle is not recommended and is illegal in some areas. Check and obey the laws and regulations on the use of mobile devices like iPhone in the areas where you drive or ride. Be careful and attentive while driving or riding a bicycle. If you decide to use iPhone while driving, keep in mind the following guidelines:<sup>1</sup>

<sup>1</sup> Adapted from the CTIA-The Wireless Association® Safe Driving Tips.

- **Give full attention to driving or riding and to the road.**  
Using a mobile device while driving or riding may be distracting. If you find it disruptive or distracting while operating any type of vehicle, riding a bicycle, or performing any activity that requires your full attention, pull off the road and park before making or answering a call if driving conditions require.
- **Get to know iPhone and its features such as Voice Control, favorites, recents, and speakerphone.**  
These features help you to place your call without taking your attention off the road. See the *iPhone User Guide* for more information.
- **Use a hands-free device.**  
Add an extra layer of convenience and safety to your iPhone with one of the many hands-free accessories available.
- **Position iPhone within easy reach.**  
Keep your eyes on the road. If you get an incoming call at an inconvenient time, let your voicemail answer it for you.
- **Try to plan calls when your car will be stationary.**  
Assess the traffic before dialing, or place calls when you are not moving or before pulling into traffic.
- **Let the person you are speaking with know you are driving.**  
If necessary, suspend the call in heavy traffic or hazardous weather conditions. Driving in rain, sleet, snow, ice, fog, and even heavy traffic can be hazardous.
- **Do not text, email, take notes, look up phone numbers, or perform any other activities that require your attention while driving.**  
Composing or reading texts and emails, jotting down a to-do list, or flipping through your address book takes attention away from your primary responsibility, driving safely.
- **Do not engage in stressful or emotional conversations that may be distracting.**  
Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.

**Navigating Safely** If your iPhone has applications that provide maps, digital compass headings, directions or location-based navigation assistance, these applications should only be used for basic navigation assistance and should not be relied on to determine precise locations, proximity, distance, or direction.

Maps, digital compass, directions, and location-based applications provided by Apple depend on data collected and services provided by third parties. These data services are subject to change and may not be available in all geographic areas, resulting in maps, digital compass headings, directions or location-based information that may be unavailable, inaccurate, or incomplete.

Some iPhones contain an internal digital compass located in the upper right corner of iPhone. The accuracy of digital compass headings may be negatively affected by magnetic or other environmental interference, including interference caused by the close proximity of the magnets contained in the

iPhone earbuds. Never rely solely on the digital compass for determining direction. Compare the information provided on iPhone to your surroundings and defer to posted signs to resolve any discrepancies.

Do not use location-based applications while performing activities that require your full attention. For important information about driving safety, see the “Driving and Riding Safely” section. Always comply with posted signs and the laws and regulations in the areas where you are using iPhone.

**Seizures, Blackouts, and Eyestrain** A small percentage of people may be susceptible to blackouts or seizures (even if they have never had one before) when exposed to flashing lights or light patterns such as when playing games or watching video. If you have experienced seizures or blackouts or have a family history of such occurrences, you should consult a physician before playing games (if available) or watching videos on your iPhone. Discontinue use of iPhone and consult a physician if you experience headaches, blackouts, seizures, convulsion, eye or muscle twitching, loss of awareness, involuntary movement, or disorientation. To reduce risk of headaches, blackouts, seizures, and eyestrain, avoid prolonged use, hold iPhone some distance from your eyes, use iPhone in a well lit room, and take frequent breaks.

**Glass Parts** The outside cover of the iPhone screen is made of glass. This glass could break if iPhone is dropped on a hard surface or receives a substantial impact. If the glass chips or cracks, do not touch or attempt to remove the broken glass. Stop using iPhone until the glass is replaced by an Apple authorized wireless service provider. Glass cracked due to misuse or abuse is not covered under the warranty.

**Choking Hazards** iPhone contains small parts, which may present a choking hazard to small children. Keep iPhone and its accessories away from small children.

**Repetitive Motion** When you perform repetitive activities such as typing or playing games on iPhone, you may experience occasional discomfort in your hands, arms, shoulders, neck, or other parts of your body. Take frequent breaks and if you have discomfort during or after such use, stop use and see a physician.

**Potentially Explosive Atmospheres** Turn off iPhone (press and hold the Sleep/Wake button, and then slide the onscreen slider) when in any area with a potentially explosive atmosphere. Do not charge iPhone, and obey all signs and instructions. Sparks in such areas could cause an explosion or fire, resulting in serious injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, marked clearly. Potential areas may include: fueling areas (such as gas stations); below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to turn off your vehicle engine.

**For Vehicles Equipped with an Air Bag** An air bag inflates with great force. Do not store iPhone or any of its accessories in the area over the air bag or in the air bag deployment area.

**Exposure to Radio Frequency Energy** iPhone contains radio transmitters and receivers. When on, iPhone receives and sends out radio frequency (RF) energy through its antenna. The iPhone cellular antenna is located on the back of iPhone near the dock connector. The Wi-Fi and Bluetooth® antenna is located near the back top edge of the iPhone. iPhone is designed and manufactured to comply with the limits for exposure to RF energy set by the Federal Communications Commission (FCC) of the United States, Industry Canada (IC) of Canada, and regulating entities of Japan, the European Union, and other countries. The exposure standard employs a unit of measurement known as the specific absorption rate, or SAR. The SAR limit applicable to iPhone set by the FCC is 1.6 watts per kilogram (W/kg), 1.6 W/kg by Industry Canada, and 2.0 W/kg by the Council of the European Union. Tests for SAR are conducted using standard operating positions (i.e., at the ear and worn on the body) specified by these agencies, with iPhone transmitting at its highest certified power level in all tested frequency bands. Although SAR is determined at the highest certified power level in each frequency band, the actual SAR level of iPhone while in operation can be well below the maximum value because iPhone adjusts its cellular transmitting power based in part on proximity to the wireless network. In general, the closer you are to a cellular base station, the lower the cellular transmitting power level.

iPhone has been tested,<sup>2</sup> and meets the FCC, IC, and European Union RF exposure guidelines for cellular, Wi-Fi, and Bluetooth operation. When tested for use at the ear and for body-worn operation (with iPhone positioned 15 mm (5/8 inch) from the body), iPhone's maximum SAR value for each frequency band is outlined below:

Frequency Band	Body	Ear	FCC & IC 1g SAR Limit (W/kg)
GSM 850	0.52	0.63	1.6
GSM 1900	0.26	0.79	1.6
UMTS II 1900	0.33	1.19	1.6
UMTS V 850	0.67	0.56	1.6
Wi-Fi	0.06	0.52	1.6

<sup>2</sup> The device was tested by Compliance Certification Services, Fremont, CA according to measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01) and IEEE P1528.1, April 21 2003 and Canada RSS 102. iPhone adheres to the European Council Recommendation of 12 July 1999 on the Limitation of Exposure of the General Public to Electromagnetic Fields [1999/519/EC].



Frequency Band	Body	Ear	EU 10g SARLimit (W/kg)
EGSM 900	0.45	0.40	2.0
GSM 1800	0.19	0.72	2.0
UMTS I 2100	0.42	1.10	2.0
Wi-Fi	0.04	0.24	2.0

iPhone's SAR measurement may exceed the FCC exposure guidelines for body-worn operation if positioned less than 15 mm (5/8 inch) from the body (e.g. when carrying iPhone in your pocket). For optimal mobile device performance and to be sure that human exposure to RF energy does not exceed the FCC, IC, and European Union guidelines, always follow these instructions and precautions: When on a call using the built-in audio receiver in iPhone, hold iPhone with the dock connector pointed down toward your shoulder to increase separation from the antenna. When using iPhone near your body for voice calls or for wireless data transmission over a cellular network, keep iPhone at least 15 mm (5/8 inch) away from the body, and only use carrying cases, belt clips, or holders that do not have metal parts and that maintain at least 15 mm (5/8 inch) separation between iPhone and the body.

If you are still concerned about exposure to RF energy, you can further limit your exposure by limiting the amount of time using iPhone, since time is a factor in how much exposure a person receives, and by placing more distance between your body and iPhone, since exposure level drops off dramatically with distance.

**Additional Information** For more information from the FCC about exposure to RF energy, see: [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)

The FCC and the U.S. Food and Drug Administration (FDA) also maintain a consumer website at [www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm](http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm) to address inquiries about the safety of mobile phones. Please check the website periodically for updates.

For information about the scientific research related to RF energy exposure, see the EMF Research Database maintained by the World Health Organization at: [www.who.int/emf](http://www.who.int/emf)

**Radio Frequency Interference** Radio-frequency emissions from electronic equipment can negatively affect the operation of other electronic equipment causing them to malfunction. Although iPhone is designed, tested, and manufactured to comply with regulations governing radio frequency emission in countries such as the United States, Canada, the European Union, and Japan, the wireless transmitters and electrical circuits in iPhone may cause interference in other electronic equipment. Therefore, please take the following precautions:

**Aircraft** Use of iPhone may be prohibited while traveling in aircraft. For more information about using Airplane Mode to turn off the iPhone wireless transmitters, see the *iPhone User Guide*.

**Vehicles** Radio frequency emissions from iPhone may affect electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.

**Pacemakers** The Health Industry Manufacturers Association recommends that a minimum separation of 15 cm (6 inches) be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. Persons with pacemakers:

- Should *always* keep iPhone more than 15 cm (6 inches) from the pacemaker when the phone is turned on
- Should not carry iPhone in a breast pocket
- Should use the ear opposite the pacemaker to minimize the potential for interference

If you have any reason to suspect that interference is taking place, turn iPhone *off* immediately.

**Hearing Aids** iPhone may interfere with hearing aids. If it does, consult the hearing aid manufacturer or your physician for alternatives or remedies.

**Other Medical Devices** If you use any other personal medical device, consult the device manufacturer or your physician to determine if it is adequately shielded from radio frequency emissions from iPhone.

**Health Care Facilities** Hospitals and health care facilities may use equipment that is particularly sensitive to external radio frequency emissions. Turn iPhone off when staff or posted signs instruct you to do so.

**Blasting Areas and Posted Facilities** To avoid interfering with blasting operations, turn off iPhone when in a “blasting area” or in areas posted “Turn off two-way radio.” Obey all signs and instructions.

## Important Handling Information

**NOTICE:** Failure to follow these handling instructions could result in damage to iPhone or other property.

**Carrying and Handling iPhone** iPhone contains sensitive components. Do not bend, drop, or crush iPhone. Some iPhones have an oleophobic coating on the screen that repels oil left by your hands and face. If your iPhone has such a coating, contact with abrasive surfaces will diminish the effectiveness of this coating. If your iPhone’s back case has a high-gloss finish, handle with care to maintain its appearance. If you are concerned about scratching or abrasion, you can use one of the many cases sold separately.

**Using Connectors and Ports** Never force a connector into a port. Check for obstructions on the port. If the connector and port don’t join with reasonable ease, they probably don’t match. Make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port.

**Keeping iPhone Within Acceptable Temperatures** Operate iPhone in a place where the temperature is between 0° and 35° C (32° to 95° F). Low- or high-temperature conditions might temporarily shorten battery life or cause

iPhone to temporarily stop working properly. Avoid dramatic changes in temperature or humidity when using iPhone as condensation may form on or within iPhone.











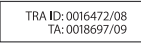

Store iPhone in a place where the temperature is between -20° and 45° C (-4° to 113° F). Don't leave iPhone in your car, because temperatures in parked cars can exceed this range.

When you're using iPhone or charging the battery, it is normal for iPhone to get warm. The exterior of iPhone functions as a cooling surface that transfers heat from inside the unit to the cooler air outside.

**Keeping the Outside of iPhone Clean** To clean iPhone, unplug all cables and turn off iPhone (press and hold the Sleep/Wake button, and then slide the onscreen slider). Then use a soft, slightly damp, lint-free cloth. Avoid getting moisture in openings. Don't use window cleaners, household cleaners, aerosol sprays, solvents, alcohol, ammonia, or abrasives to clean iPhone. If your iPhone has an oleophobic coating on the screen, simply wipe iPhone's screen with a soft, lint-free cloth to remove oil left by your hands and face. Please note that the ability of this coating to repel oil will diminish over time with normal usage, and that rubbing the screen with an abrasive material will further diminish its effect and may scratch your screen.

## Certification and Compliance

See iPhone for the certification and compliance marks specific to that device.

U.S.	 FCC ID: BCGA1303A FCC ID: BCGA1303B	Singapore	
Canada	IC ID: 579C-A1303A IC ID: 579C-A1303B	Philippines	 NTC Type Approval No: ESD-GEC-0900080
E.U.		Brazil	 1262-09-1993
Australia/ New Zealand	 N122 Z844	Russia	 ME67
Mexico	 NTC Cofetel: RTIAPA 108 - 0752 - A1	South Africa	 TA-2009/485 Approved
Japan	 AD 09-0002 202 202XY09564991 202MW09564991 202WW095649911 202WW095649912 202GZ095649912 202WW095649913 202GZ095649913	United Arab Emirates	
Taiwan	 CCAI093G0080T4 CCAI093G0090T7	Argentina	CNC: 25-7518 25-7520 25-7531 25-7532

**Important:** Changes or modifications to this product not authorized by Apple could void the EMC and wireless compliance and negate your authority to operate the product. This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

### FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Canadian Compliance Statement

Complies with the Canadian ICES-003 Class B specifications. Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada. This device complies with RSS 210 of Industry Canada. This Class B device meets all the requirements of the Canadian interference-causing equipment regulations. Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### European Union Regulatory Conformance

The equipment complies with the RF Exposure Requirement 1999/519/EC, Council Recommendation of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0–300 GHz). This equipment meets the following conformance standards:

EN 300 328, EN 301 489-17, EN 301 511, EN 301 908, EN 50385

## EU Declaration of Conformity

**Български** Apple Inc. декларира, че този клетъчен, Wi-Fi, Bluetooth предавател е в съответствие със съществените изисквания и другите приложими правила на Директива 1999/5/EC.

**Česky** Apple Inc. tímto prohlašuje, že tento cellular, Wi-Fi, & Bluetooth g je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

**Dansk** Undertegnede Apple Inc. erklærer herved, at følgende udstyr cellular, Wi-Fi, & Bluetooth overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

**Deutsch** Hiermit erkläre Apple Inc., dass sich das Gerät cellular, Wi-Fi, & Bluetooth in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

**Eesti** Käesolevaga kinnitab Apple Inc. seadme cellular, Wi-Fi, & Bluetooth vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

**English** Hereby, Apple Inc. declares that this cellular, Wi-Fi, & Bluetooth is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

**Español** Por medio de la presente Apple Inc. declara que el cellular, Wi-Fi, & Bluetooth cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

**Ελληνική** ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Apple Inc. ΔΗΛΩΝΕΙ ΟΤΙ cellular, Wi-Fi, & Bluetooth ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

**Français** Par la présente Apple Inc. déclare que l'appareil cellular, Wi-Fi, & Bluetooth est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

**Islenska** Hér með lýsir Apple Inc. yfir því að cellular, Wi-Fi, & Bluetooth er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.

**Italiano** Con la presente Apple Inc. dichiara che questo cellular, Wi-Fi, & Bluetooth è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

**Latviski** Ar šo Apple Inc. deklarē, ka cellular, Wi-Fi, & Bluetooth atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

**Lietuvių** Šiuo Apple Inc. deklaruoja, kad šis cellular, Wi-Fi, & Bluetooth atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

**Magyar** Alulírott, Apple Inc. nyilatkozom, hogy a cellular, Wi-Fi, & Bluetooth megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

**Malti** Hawnhekk, Apple Inc., jiddikjara li dan cellular, Wi-Fi, & Bluetooth jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC.

**Nederlands** Hierbij verklaart Apple Inc. dat het toestel cellular, Wi-Fi, & Bluetooth in overeenstemming is met de essentiële eisen en de andere bepalingen van richtlijn 1999/5/EG.



**Norsk** Norsk Apple Inc. erklærer herved at utstyret mobiltelefon, Wi-Fi og Bluetooth er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

**Polski** Niniejszym Apple Inc. oświadcza, że cellular, Wi-Fi, & Bluetooth jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.

**Português** Apple Inc. declara que este cellular, Wi-Fi, & Bluetooth está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

**Româna** Prin prezenta Apple Inc. declară că acest aparat cellular, Wi-Fi, & Bluetooth este în conformitate cu cerințele esențiale și cu celelalte prevederi relevante ale Directivei 1999/5/CE.

**Slovensko** Apple Inc. izjavlja, da je ta cellular, Wi-Fi, & Bluetooth v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

**Slovensky** Apple Inc. týmto vyhlasuje, že cellular, Wi-Fi, & Bluetooth splňa základné požiadavky a všetky príslušné ustanovenia Smernice/5/ES.

**Suomi** Apple Inc. vakuuttaa täten että cellular, Wi-Fi, & Bluetooth tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

**Svenska** Härmed intygar Apple Inc. att denna cellular, Wi-Fi, & Bluetooth står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

A copy of the EU Declaration of Conformity is available at:  
[www.apple.com/euro/compliance](http://www.apple.com/euro/compliance)

iPhone can be used in the following countries:

AT	BG	BE	CY	CZ	DK	EE	FI	FR	DE	GR	HU
IE	IT	LV	LT	LU	MT	NL	PL	PT	RO	SK	SL
ES	SE	GB	IS	LI	NO	CH					

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software update. You will be responsible for reinstalling all other software programs, data and passwords. Recovery and reinstallation of software programs and user data are not covered under this Limited Warranty.

A list of authorized wireless service providers is available online at:  
<http://images.apple.com/legal/warranty/docs/iPhoneAuthorizedDistributors.pdf>

Complimentary support may be available. See:  
<http://www.apple.com/support/country/index.html?dest=complimentary>

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Region/ Country of Purchase	Apple	Address
<b>Americas</b>		
Brazil	Apple Computer Brasil Ltda	Av. Cidade Jardim 400, 2 Andar, Sao Paulo, SP Brasil 01454-901
Canada	Apple Canada Inc.	7495 Birchmount Rd.; Markham, Ontario, Canada; L3R 5G2 Canada
Mexico	Apple Operations Mexico, S.A. de C.V.	Av. Paseo de la Reforma 505, Piso 33, Colonia Cuauhtemoc, Mexico DF 06500
United States and Other Americas Countries	Apple Inc.	1 Infinite Loop; Cupertino, CA 95014, U.S.A.
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All countries	Apple Sales International	Hollyhill Industrial Estate Hollyhill, Cork, Republic of Ireland
<b>Asia Pacific</b>		
Australia; New Zealand; Fiji, Papua New Guinea; Vanuatu	Apple Pty. Limited.	PO Box A2629, South Sydney, NSW 1235, Australia
Hong Kong	Apple Asia Limited	2401 Tower One, Times Square, Causeway; Hong Kong
India	Apple India Private Ltd.	19th Floor, Concorde Tower C, UB City No 24, Vittal Mallya Road, Bangalore 560-001, India
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Korea	Apple Computer Korea Ltd.	3201, ASEM Tower; 159, Samsung-dong, Kangnam-gu; Seoul 135-090, Korea



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People's Republic of China	Apple Computer Trading (Shanghai) Co. Ltd.	B Area, 2/F, No. 6 Warehouse Building, No. 500 Bing Ke Road, Wai Gao Qiao Free Trade Zone, Shanghai, P.R.C.
Thailand	Apple South Asia (Thailand) Limited	25th Floor, Suite B2, Siam Tower, 989 Rama 1 Road, Pataumwan, Bangkok, 10330
Taiwan	Apple Asia LLC	16A, No. 333 Tun Hwa S. Road. Sec. 2, Taipei, Taiwan 106
Other Asian Pacific Countries	Apple Inc.	1 Infinite Loop; Cupertino, CA 95014, U.S.A.
Privacy Policy		
All countries	<a href="http://www.apple.com/legal/warranty/privacy">http://www.apple.com/legal/warranty/privacy</a>	

iPhone US Warranty v1.9

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## Finger Tips

Start Here

Welcome to iPhone. This Quick Start guide tells you how to set up your iPhone and use its key features. Once you're up and calling, you can learn even more about iPhone at [www.apple.com/iphone](http://www.apple.com/iphone).

### Ready, set up, go.

**1. Download iTunes.**  
Go to [www.itunes.com/download](http://www.itunes.com/download) and download the latest version of iTunes to install on your Mac or PC.

**2. Connect to your computer.**  
Connect your iPhone to the USB port on your computer.

### 3. Sync.

When iPhone is connected, iTunes opens and guides you through setup. Select the contacts, calendars, music, videos, and photos you'd like to sync, then click Apply in the lower-right corner. If you're new to iTunes or syncing, you can watch a quick tutorial at [www.apple.com/itunes/tutorials](http://www.apple.com/itunes/tutorials).

### Button basics.

To turn iPhone on, firmly press the On/Off button. To turn off or restart iPhone, hold down the On/Off button, then slide to confirm. To put iPhone in sleep mode, press the On/Off button once. This turns off the screen but still allows iPhone to receive calls. To silence an incoming call, press once. To send a call directly to voicemail, press twice.



### Go Home.

When using an application, press the Home button to close it and return to the Home screen. Press the Home button again to jump to your main Home screen. While on a call, you can access your email, calendar, or other applications, and even surf the web when you're connected via Wi-Fi or 3G. Double-click the Home button anytime to go to Favorites. Double-click in sleep mode to bring up iPod controls.



### Make a call.

Tap a phone number in Contacts, Favorites, an email, a text message, or almost anywhere in iPhone to make a call. Or tap the Keypad button to dial manually. To answer a call while using the iPhone headset, press the center button once. Press it again to end your call. To adjust the volume, press the "+" and "-" buttons located above and below the microphone.



### Voice Control.

To activate Voice Control, hold down the Home button until the Voice Control screen appears. After the tone, speak a command such as "Call Emma" or "Dial 555-1212." You can also ask iPhone to play a specific album, artist, or playlist or to "Play more songs like this." You can even ask iPhone "What's playing?"



### Intelligent keyboard.

iPhone automatically corrects and suggests words as you type. So if you tap a wrong letter, just keep typing. To accept the suggested word, tap the space bar. Tap the "x" to dismiss the suggested word. The keyboard learns the words you type. It also inserts apostrophes into contractions for you. To switch to the number and symbol keyboard, tap the "123" key. Tap the space bar twice to add a period.



### Magnify to edit text.

Tap the text you want to edit. To reposition the insertion point, touch and hold to bring up the magnifying glass. Slide your finger to move the insertion point, then edit using the keyboard.



### Cut, copy, and paste.

When typing, double-tap a word to select it. Drag the grab points to select more or less text, then tap to cut, copy, or paste. To copy text from web pages, email, or text messages, touch and hold to select the text. To undo an edit, shake iPhone, then tap the Undo button.



### Send messages.

Tap the Messages icon. Type a name or phone number in the To field or select someone from your contacts. Write your message, then tap Send. To send photos or videos, tap the Camera button. To delete or forward all or part of a message, tap Edit. To remove an entire conversation from your Messages list, swipe your finger across it, then tap Delete.



**Setting up email.**

To set up an email account directly on your iPhone, tap Add Account in Mail Settings. Then tap the account type you have, or tap Other to configure most any POP3 or IMAP account. Email account settings can also be synced from your Mac or PC using iTunes.

**Access the App Store.**

Tap the App Store icon to wirelessly browse tens of thousands of applications in categories like games, business, travel, social networking, and more. Browse by Featured, Categories, or Top 25 or search by name. To purchase and download an application directly to your iPhone, tap Buy Now. Many applications are even free.

**Search with Spotlight.**

To use Spotlight search, go to the main Home screen and press the Home button or swipe the screen from left to right. Type in what you'd like to find—a name, keywords, song, artist, or movie title. iPhone offers suggestions as you type to make searching even faster. To search within an application like Mail, Contacts, or iPod, tap the status bar.

**See the web up close.**

Double-tap any element on a web page—picture or text—to zoom in. Double-tap again to zoom back out. Tap the Multi-page button to flick between multiple web pages or open a new one. Rotate iPhone to see the web in widescreen.

**Find location. Search surroundings.**

To see where you are on a map, tap the Location button. A blue circle or dot appears at your current position. To see which way you're facing, tap the Location button again to turn on compass view. Find places around you by typing words like "Starbucks" or "pizza" in the search field. Double-tap to zoom in. Tap once with two fingers to zoom out.

**Get directions.**

In Maps, tap Directions, then enter start and end points. You can use your current location, type in an address, or select an address from your contacts or bookmarked locations. Tap Route to display driving directions. Tap the Walk button for walking directions or the Bus button to view transit routes and times. iPhone can track and show your progress along whichever route you take.

**Video and song controls.**

Tap the screen to bring up onscreen controls. Tap again to hide them. Double-tapping a movie switches between widescreen and full screen. While listening to music, rotate iPhone to flick through your album art in Cover Flow. Tap any album to see its track list, then tap any track to play it. Tap outside the track list to flip back to the album artwork. When listening to music with the wired headset, press the center button once to pause or play, and press it twice quickly to skip to the next song.

**View photos.**

Load your favorite photos onto iPhone from your computer using iTunes or use the built-in camera to take pictures or video. Flick right or left to move between images. Double-tap or pinch to zoom. Tap once to bring up the onscreen controls. Tap the Action button to send a photo or video in an MMS or email, or to use a photo as wallpaper or assign it to a contact.

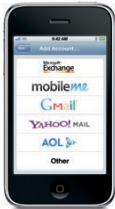
**Learn more.**

You can watch demos and learn even more about iPhone features at [www.apple.com/iphone](http://www.apple.com/iphone).

To read the iPhone User Guide on your iPhone, go to [help.apple.com/iphone](http://help.apple.com/iphone) or the Safari bookmarks. For downloadable versions of the iPhone User Guide and Important Product Information Guide, visit [www.apple.com/support/iphone](http://www.apple.com/support/iphone).

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# Installing iPhone 3GS Vibrator

## Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)



## Step 1 - Installing iPhone 3G Vibrator

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



## Step 2

- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.



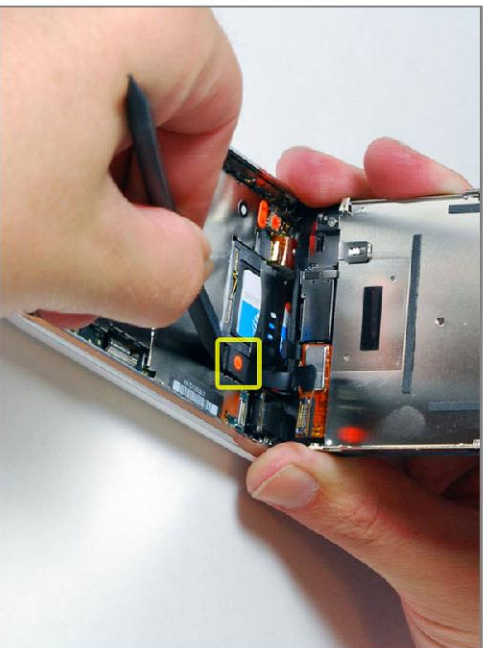
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



### Step 4

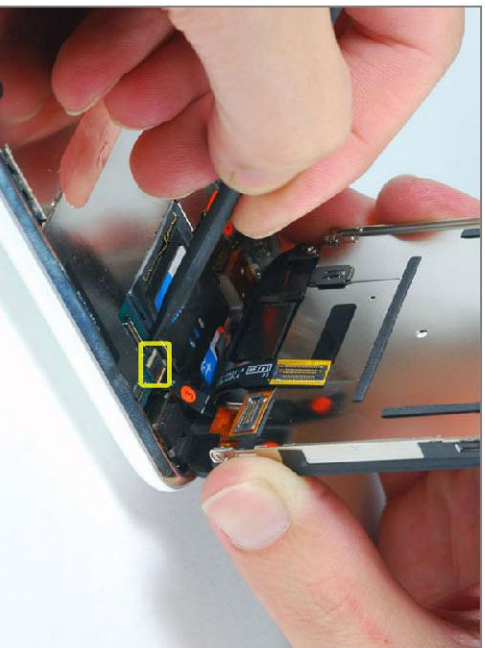
- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."





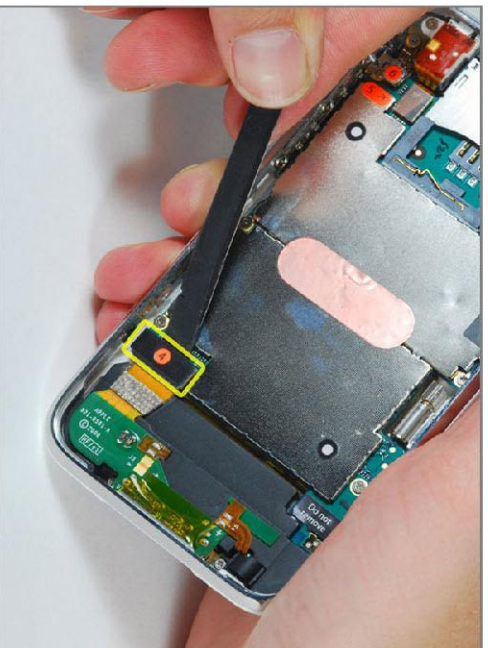
### Step 6

- Use a spudger to flip up the white plastic tab holding the remaining ribbon cable in place. The white tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the black ribbon cable out of its connector, and remove the display assembly from the iPhone.



### Step 7

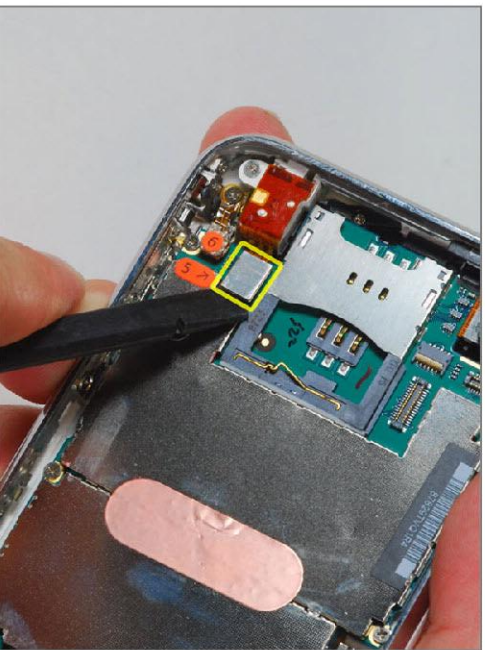
- Insert your SIM eject tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.
- Grasp the SIM card tray and slide it out of the iPhone.



### Step 8

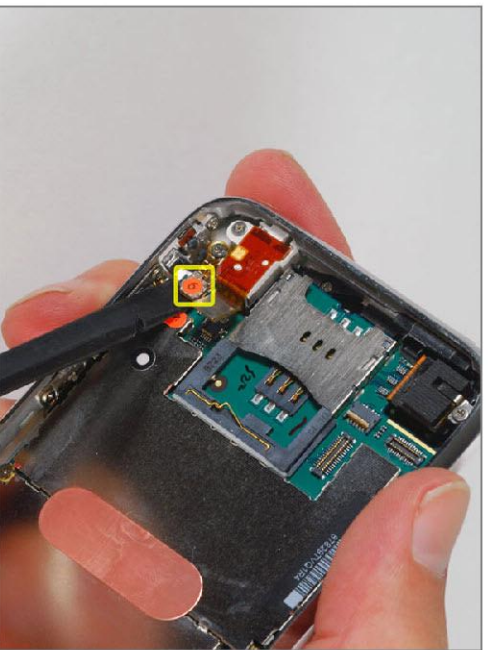
- Use a spudger to disconnect the ribbon cable labeled "4."





### Step 9

- Use a spudger to disconnect the ribbon cable labeled "5."



### Step 10

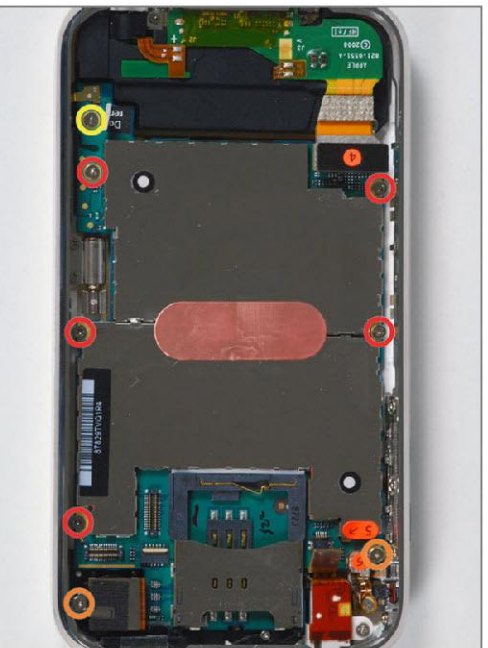
- Use a spudger to disconnect the ribbon cable labeled "6."
- If you have an iPhone 3GS, refer to picture 2 and use a spudger to disconnect the ribbon cable labeled "7."





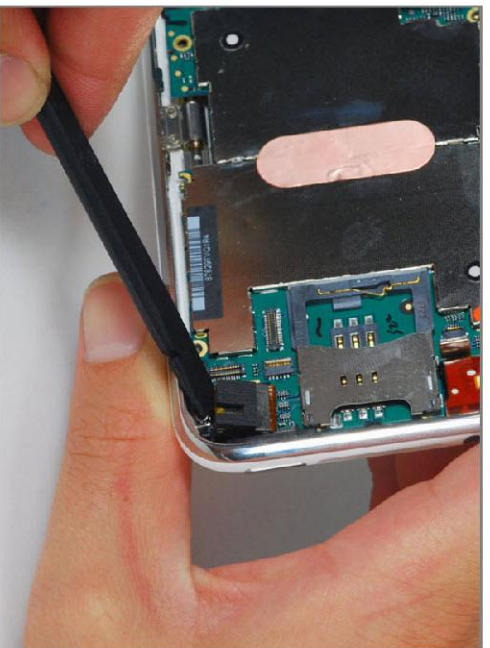
### Step 11

- Carefully peel up the small sticker labeled "Do not remove."



### Step 12

- Remove the following 8 screws:
  - Five 2.3 mm Phillips #00 screws with partial threads securing the logic board to the rear panel.
  - Two 2.3 mm Phillips #00 screws with full threads securing the logic board and camera.
  - One 2.9 mm Phillips #00 screw from beneath the "Do not remove" sticker.



### Step 13

- Use a spudger to gently pry the camera up and out of its housing in the rear panel. The camera cannot be removed entirely yet because it's connected to the bottom of the logic board.



#### Step 14

- Use a spudger to gently pry up the end of the logic board closest to the dock connector.
- If the board won't lift up, double check to make sure all the screws securing the logic board have been removed.



#### Step 15

- Slide the logic board towards the dock connector and out of the iPhone.



#### Step 16

- Remove the two Phillips #00 screws securing the vibrator to the rear panel.





**Step 17**

- Lift the vibrator up and out of the iPhone.

## Installing iPhone 3GS SIM Card

Tools used in this guide

- [Paper Clip](#)

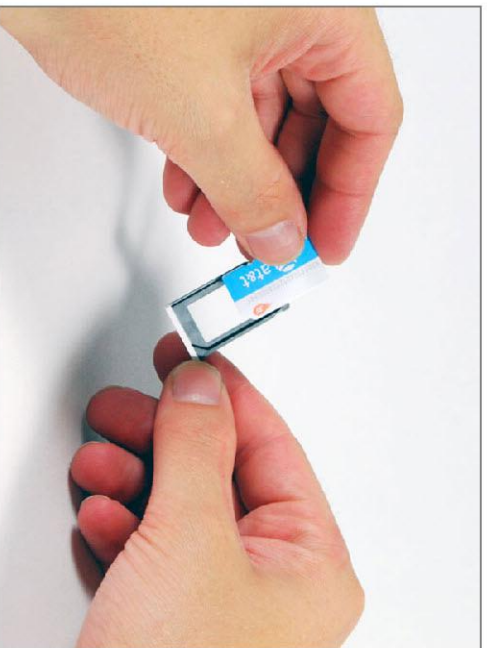
### ***Step 1 - Installing iPhone 3G SIM Card***

- Apple includes a "SIM eject tool" with the iPhone 3G. If you don't have this tool, don't worry, an ordinary paperclip works just as well.
- Insert your SIM eject tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.



### ***Step 2***

- Remove the SIM card from the SIM card tray.
- The cut-off corner should make it easy to reinstall the SIM card in the correct orientation.





# Installing iPhone 3GS Headphone Jack

## Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)



## Step 1 - Installing iPhone 3G Battery

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



## Step 2

- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.



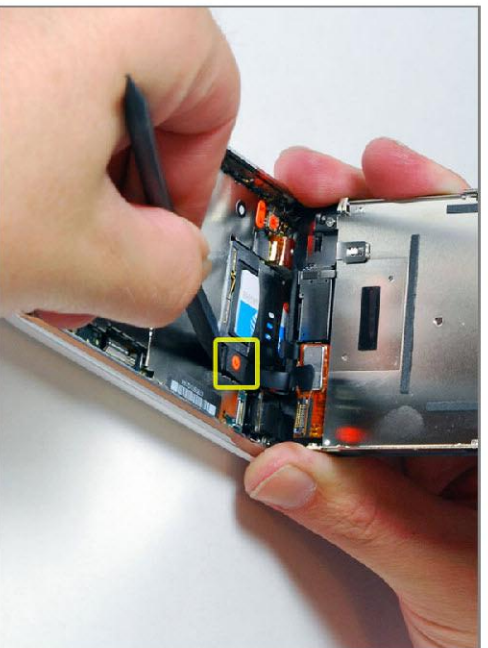
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



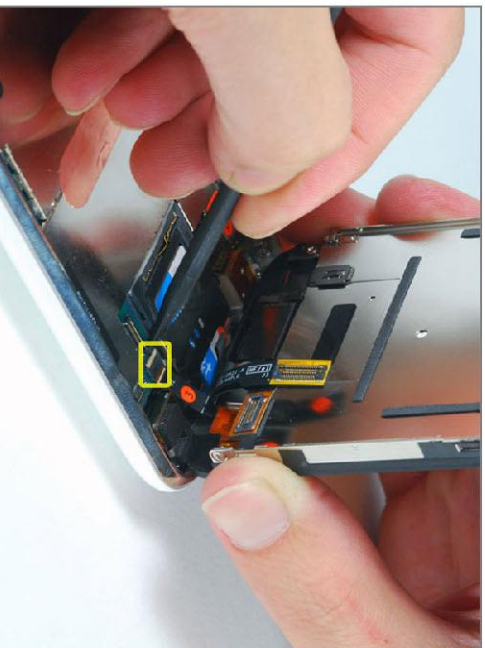
### Step 4

- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."



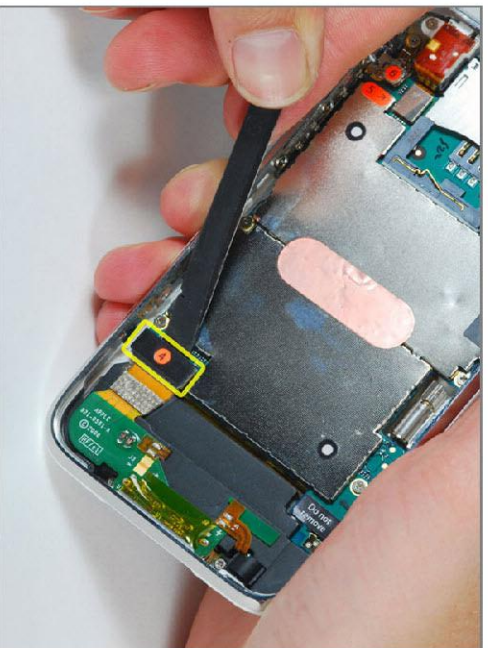
### Step 6

- Some iPhone 3GS may have the connector colors reversed (black plastic tab, white connector). Make sure you're flipping up the tab properly, otherwise you may damage the connector.
- Use a spudger to flip up the white plastic tab holding the remaining ribbon cable in place. The white tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the black ribbon cable out of its connector, and remove the display assembly from the iPhone.



### Step 7

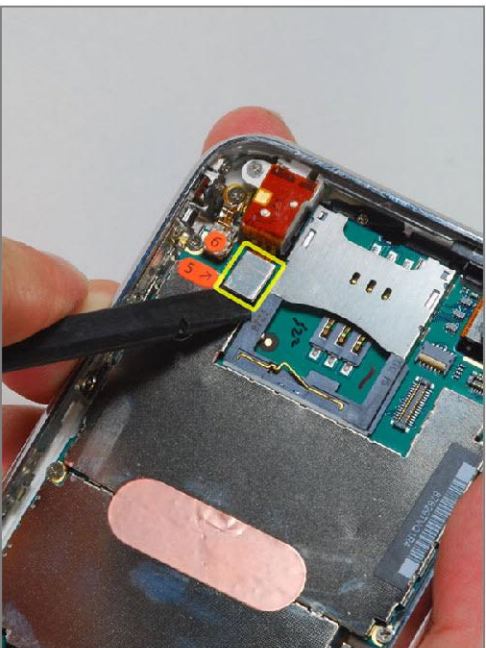
- Insert your SIM ejector tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.
- Grasp the SIM card tray and slide it out of the iPhone.



### Step 8

- Use a spudger to disconnect the ribbon cable labeled "4."





**Step 9**

- Use a spudger to disconnect the ribbon cable labeled "5."



**Step 10**

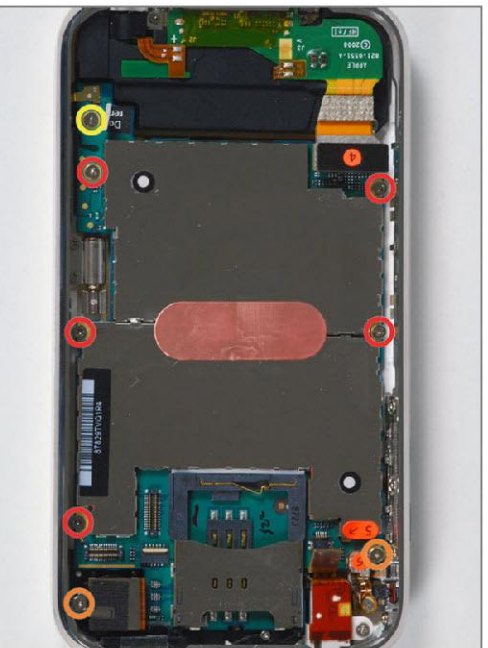
- Use a spudger to disconnect the ribbon cable labeled "6."
- If you have an iPhone 3GS, refer to picture 2 and use a spudger to disconnect the ribbon cable labeled "7."





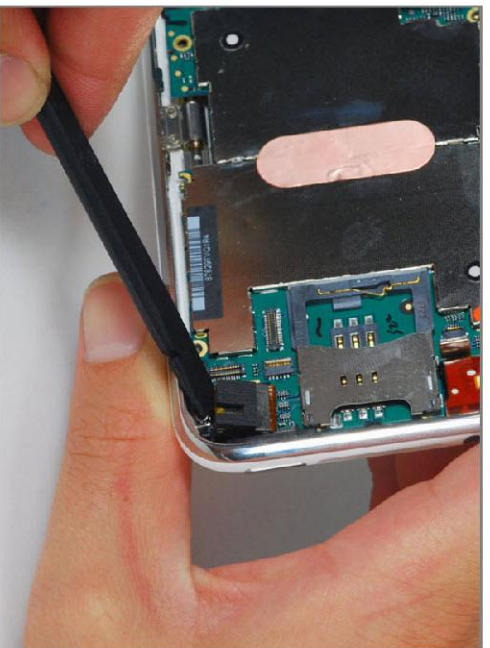
### Step 11

- Carefully peel up the small sticker labeled "Do not remove."



### Step 12

- Remove the following 8 screws:
  - Five 2.3 mm Phillips #00 screws with partial threads securing the logic board to the rear panel.
  - Two 2.3 mm Phillips #00 screws with full threads securing the logic board and camera.
  - One 2.9 mm Phillips #00 screw from beneath the "Do not remove" sticker.



### Step 13

- Use a spudger to gently pry the camera up and out of its housing in the rear panel. The camera cannot be removed entirely yet because it's connected to the bottom of the logic board.



#### **Step 14**

- Use a spudger to gently pry up the end of the logic board closest to the dock connector.
- If the board won't lift up, double check to make sure all the screws securing the logic board have been removed.



#### **Step 15**

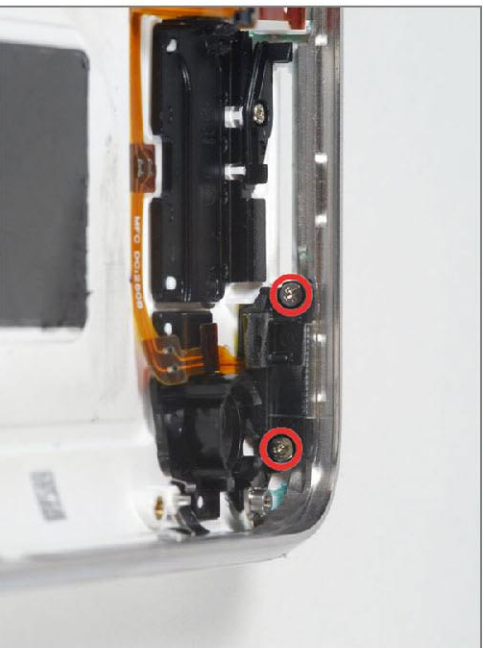
- Slide the logic board towards the dock connector and out of the iPhone.



#### **Step 16**

- Use a spudger to pry the battery up from the rear panel. The battery is attached with an adhesive strip around the perimeter of the battery. To prevent the battery from bending during the removal process, we recommend against using just the plastic pull-tab .





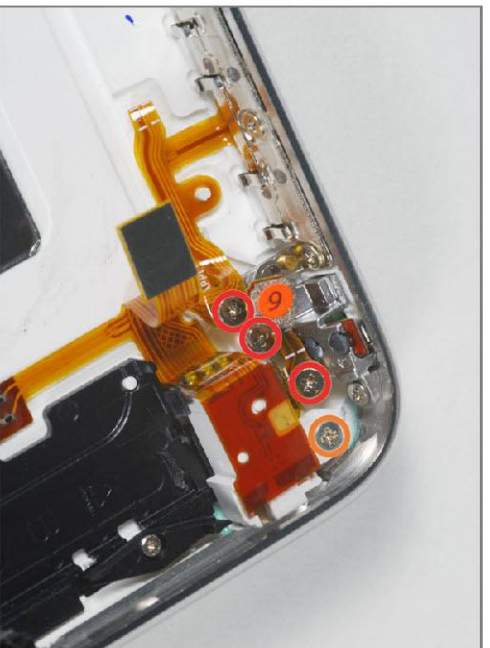
### **Step 17 - Installing iPhone 3G Headphone Jack**

- Remove the two Phillips #00 screws securing the on/off switch to the front bezel.



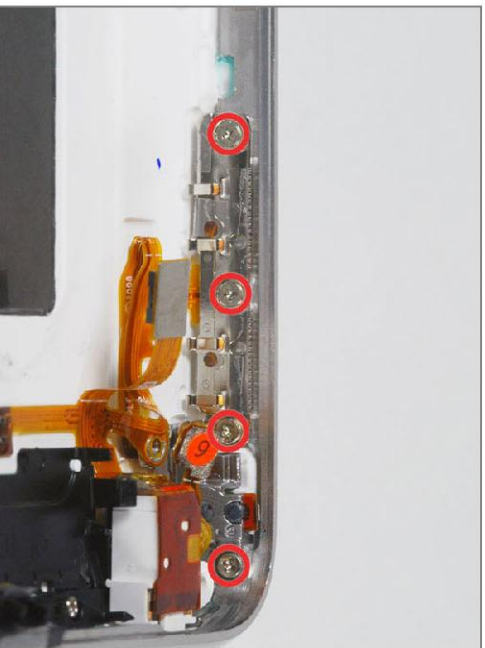
### **Step 18**

- Carefully peel up the orange ribbon cable from the rear panel.



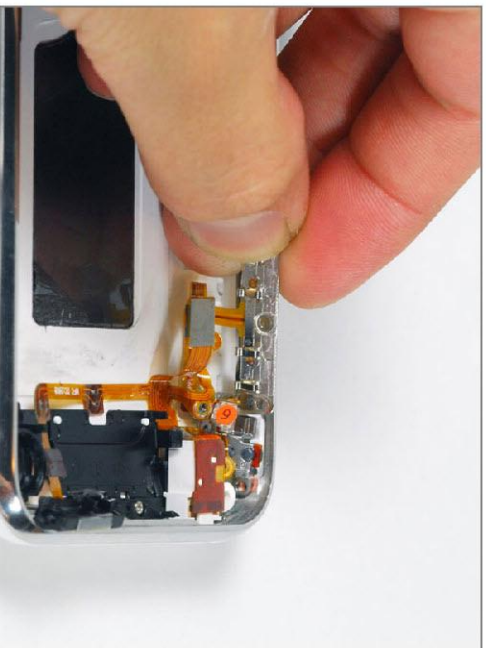
### **Step 19**

- Remove the following 4 screws:
  - Three 1.8 mm Phillips #00 screws securing the headphone jack and GPS antenna to the rear panel.
  - One 3.8 mm Phillips #00 screw in the plastic loop near the headphone jack.



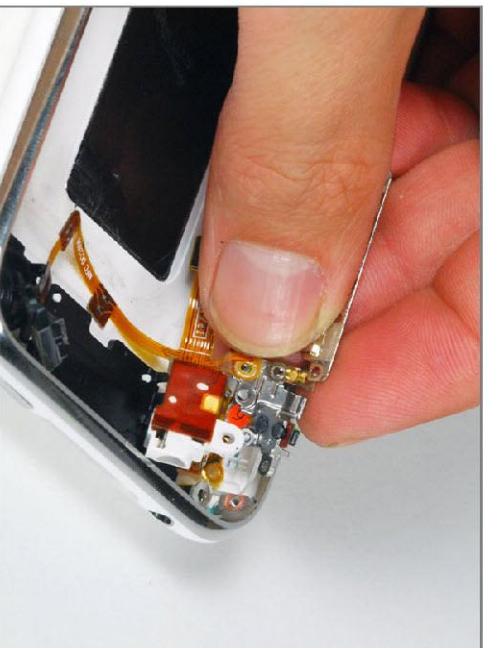
### Step 20

- Remove the four Phillips #00 screws securing the volume and vibrate buttons.



### Step 21

- Lift the volume button circuitry away from the side of the iPhone, and carefully peel up the orange ribbon cable from the rear panel.



### Step 22

- Carefully lift the headphone jack assembly out of the iPhone.

# Installing iPhone 3GS GPS Antenna

## Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)



## Step 1 - Installing iPhone 3G Battery

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



## Step 2

- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.





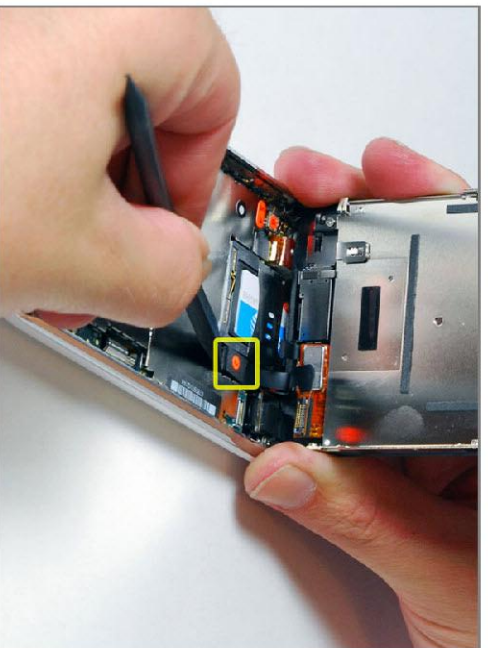
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



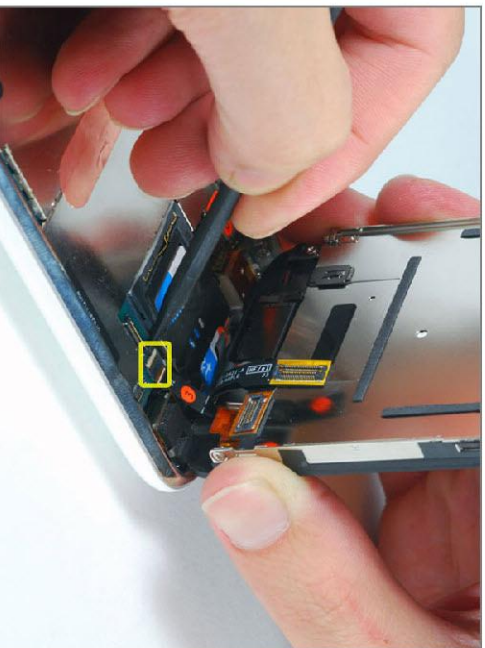
### Step 4

- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."



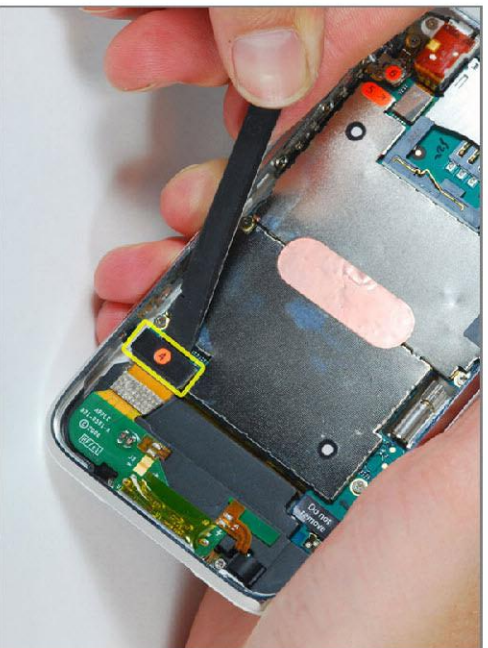
### Step 6

- Some iPhone 3Gs may have the connector colors reversed (black plastic tab, white connector). Make sure you're flipping up the tab properly, otherwise you may damage the connector.
- Use a spudger to flip up the white plastic tab holding the remaining ribbon cable in place. The white tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the black ribbon cable out of its connector, and remove the display assembly from the iPhone.



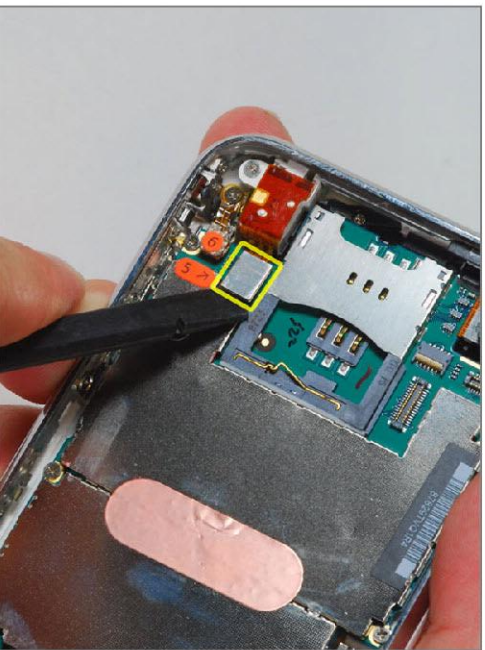
### Step 7

- Insert your SIM eject tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.
- Grasp the SIM card tray and slide it out of the iPhone.



### Step 8

- Use a spudger to disconnect the ribbon cable labeled "4."



**Step 9**

- Use a spudger to disconnect the ribbon cable labeled "5."



**Step 10**

- Use a spudger to disconnect the ribbon cable labeled "6."
- If you have an iPhone 3GS, refer to picture 2 and use a spudger to disconnect the ribbon cable labeled "7."

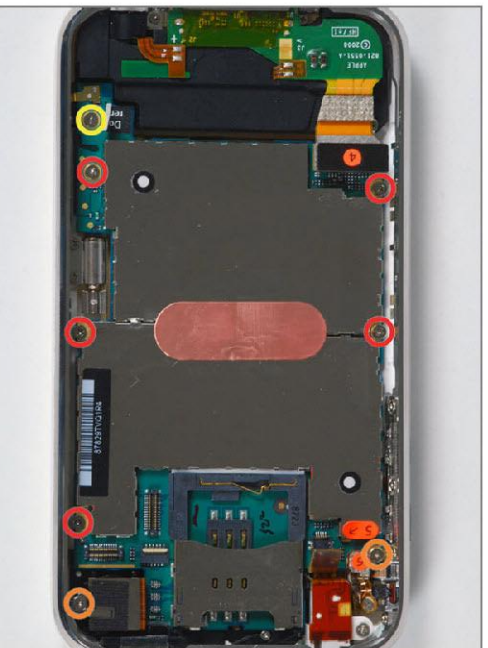






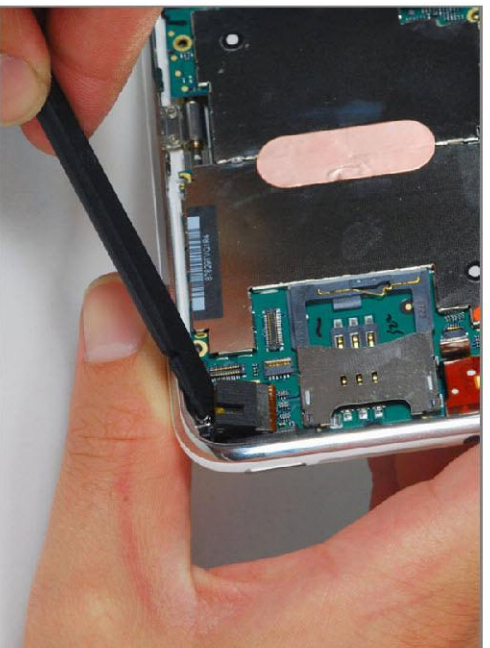
### Step 11

- Carefully peel up the small sticker labeled "Do not remove."



### Step 12

- Remove the following 8 screws:
  - Five 2.3 mm Phillips #00 screws with partial threads securing the logic board to the rear panel.
  - Two 2.3 mm Phillips #00 screws with full threads securing the logic board and camera.
  - One 2.9 mm Phillips #00 screw from beneath the "Do not remove" sticker.



### Step 13

- Use a spudger to gently pry the camera up and out of its housing in the rear panel. The camera cannot be removed entirely yet because it's connected to the bottom of the logic board.



#### **Step 14**

- Use a spudger to gently pry up the end of the logic board closest to the dock connector.
- If the board won't lift up, double check to make sure all the screws securing the logic board have been removed.



#### **Step 15**

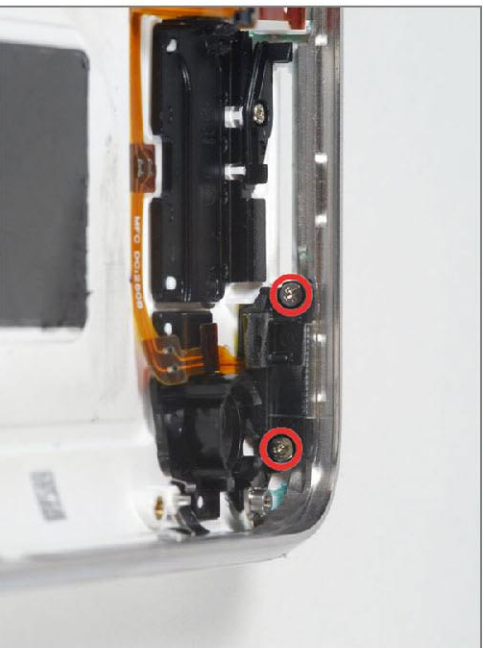
- Slide the logic board towards the dock connector and out of the iPhone.



#### **Step 16**

- Use a spudger to pry the battery up from the rear panel. The battery is attached with an adhesive strip around the perimeter of the battery. To prevent the battery from bending during the removal process, we recommend against using just the plastic pull-tab .





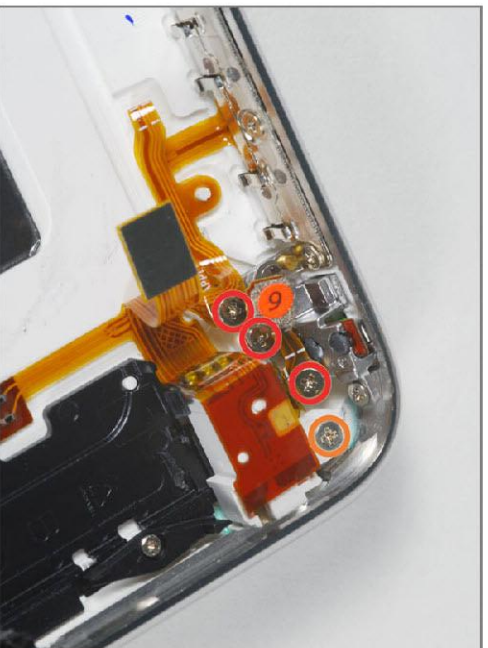
### **Step 17 - Installing iPhone 3G Headphone Jack**

- Remove the two Phillips #00 screws securing the on/off switch to the front bezel.



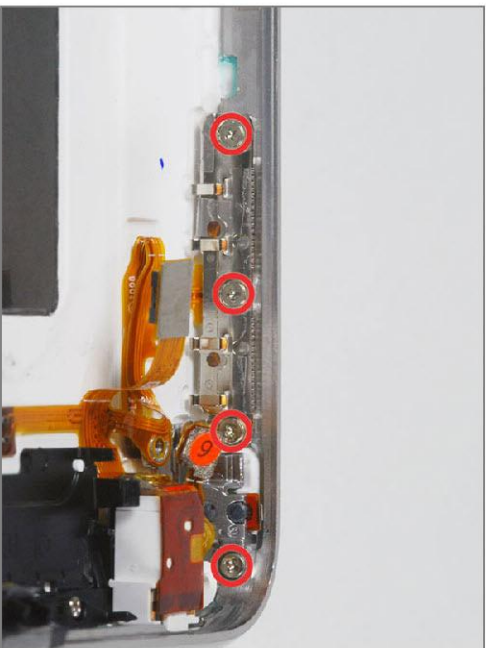
### **Step 18**

- Carefully peel up the orange ribbon cable from the rear panel.



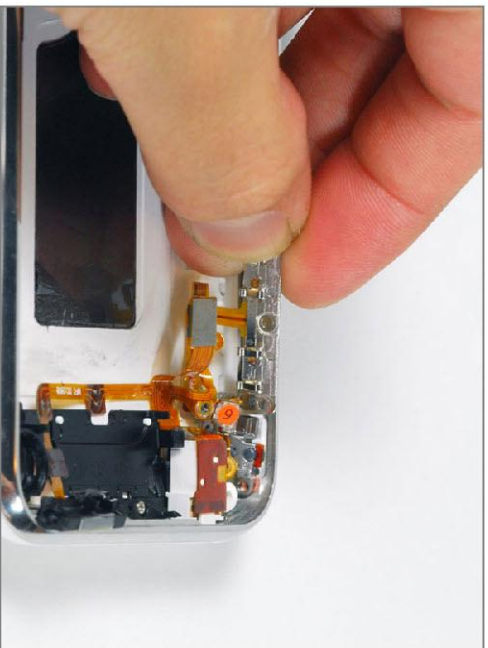
### **Step 19**

- Remove the following 4 screws:
  - Three 1.8 mm Phillips #00 screws securing the headphone jack and GPS antenna to the rear panel.
  - One 3.8 mm Phillips #00 screw in the plastic loop near the headphone jack.



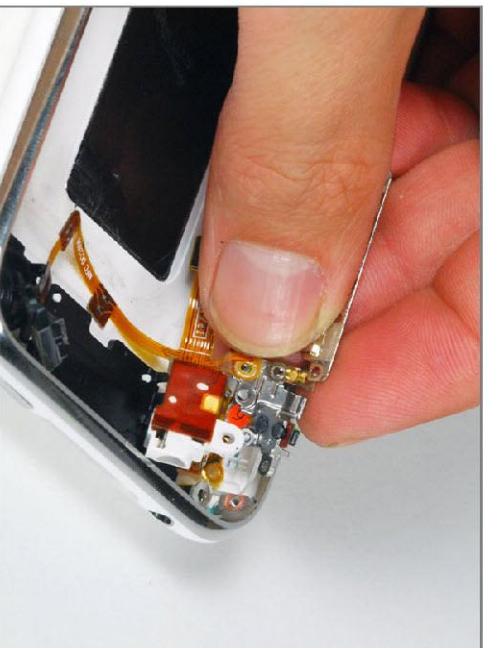
### Step 20

- Remove the four Phillips #00 screws securing the volume and vibrate buttons.



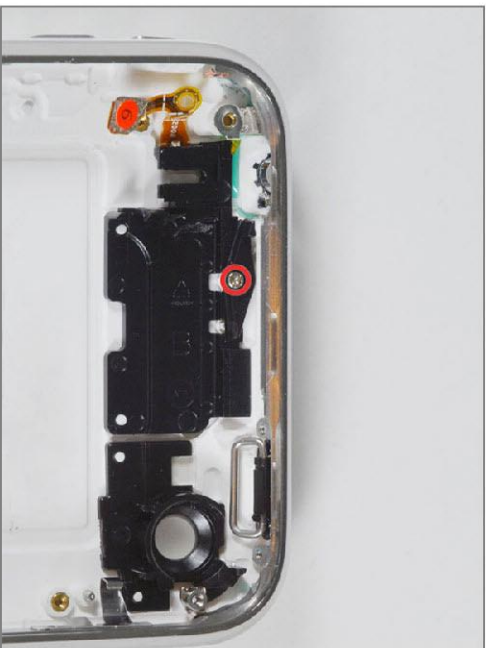
### Step 21

- Lift the volume button circuitry away from the side of the iPhone, and carefully peel up the orange ribbon cable from the rear panel.



### Step 22

- Carefully lift the headphone jack assembly out of the iPhone.



### ***Step 23 - Installing iPhone 3G GPS Antenna***

- Remove the single Philips #00 screw securing the black plastic spacer.



### ***Step 24***

- Use a spudger to pry up the black plastic antenna housing from the rear panel.
- Lift the black plastic antenna housing out of the iPhone.



# Installing iPhone 3GS Logic Board

## Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)



## Step 1 - Installing iPhone 3G Logic Board

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



## Step 2

- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.





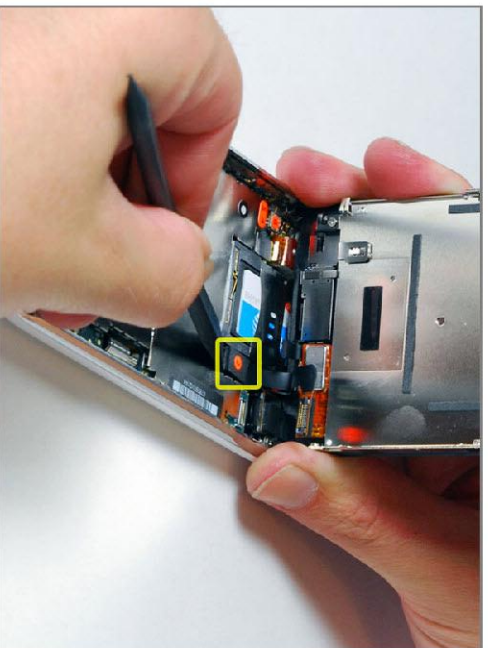
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



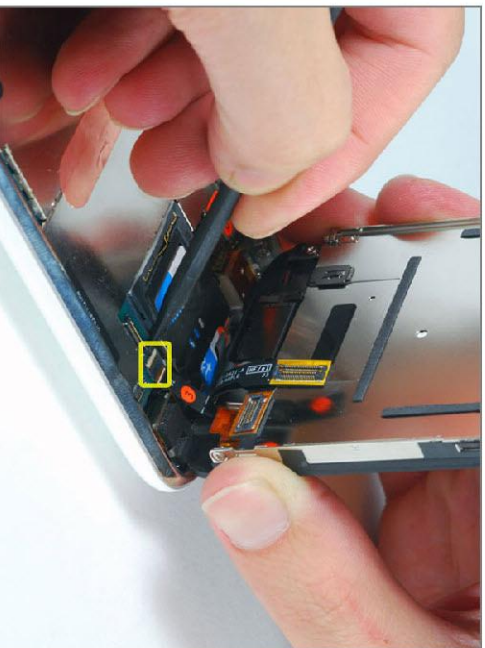
### Step 4

- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."



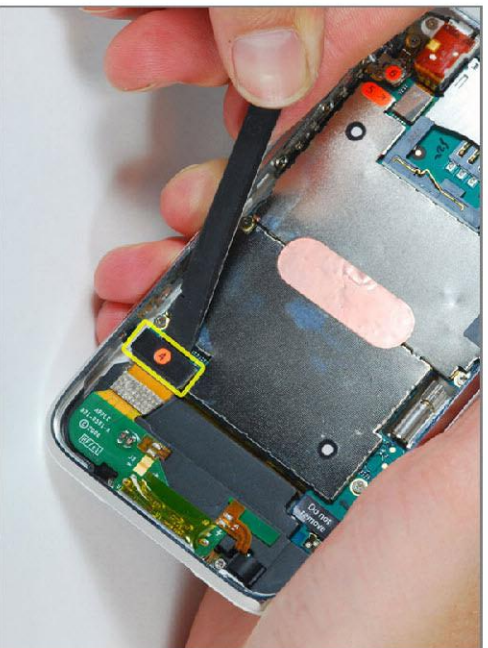
### Step 6

- Use a spudger to flip up the white plastic tab holding the remaining ribbon cable in place. The white tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the black ribbon cable out of its connector, and remove the display assembly from the iPhone.



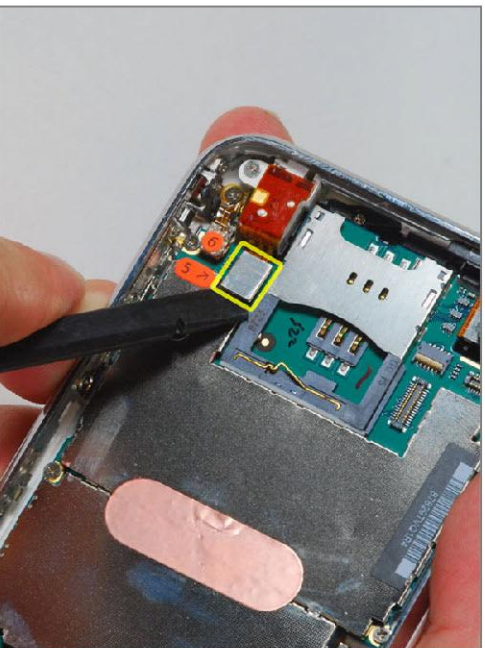
### Step 7

- Insert your SIM eject tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.
- Grasp the SIM card tray and slide it out of the iPhone.



### Step 8

- Use a spudger to disconnect the ribbon cable labeled "4."



**Step 9**

- Use a spudger to disconnect the ribbon cable labeled "5."



**Step 10**

- Use a spudger to disconnect the ribbon cable labeled "6."
- If you have an iPhone 3GS, refer to picture 2 and use a spudger to disconnect the ribbon cable labeled "7."

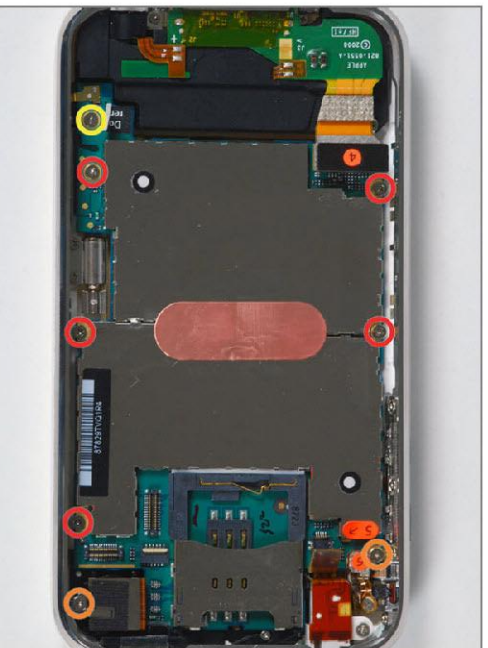






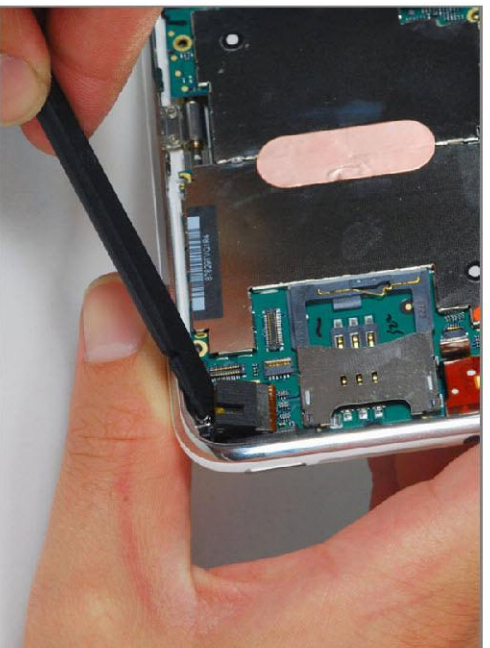
### Step 11

- Carefully peel up the small sticker labeled "Do not remove."



### Step 12

- Remove the following 8 screws:
  - Five 2.3 mm Phillips #00 screws with partial threads securing the logic board to the rear panel.
  - Two 2.3 mm Phillips #00 screws with full threads securing the logic board and camera.
  - One 2.9 mm Phillips #00 screw from beneath the "Do not remove" sticker.



### Step 13

- Use a spudger to gently pry the camera up and out of its housing in the rear panel. The camera cannot be removed entirely yet because it's connected to the bottom of the logic board.



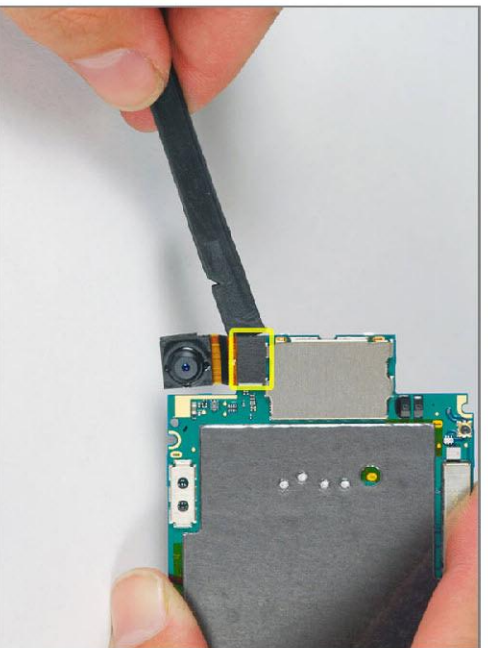
#### **Step 14**

- Use a spudger to gently pry up the end of the logic board closest to the dock connector.
- If the board won't lift up, double check to make sure all the screws securing the logic board have been removed.



#### **Step 15**

- Slide the logic board towards the dock connector and out of the iPhone.



#### **Step 16**

- Use a spudger to disconnect the camera from the logic board.

# Installing iPhone 3GS Vibrate/Ring Switch

## Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)



## Step 1 - Installing iPhone 3G Battery

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



## Step 2

- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.





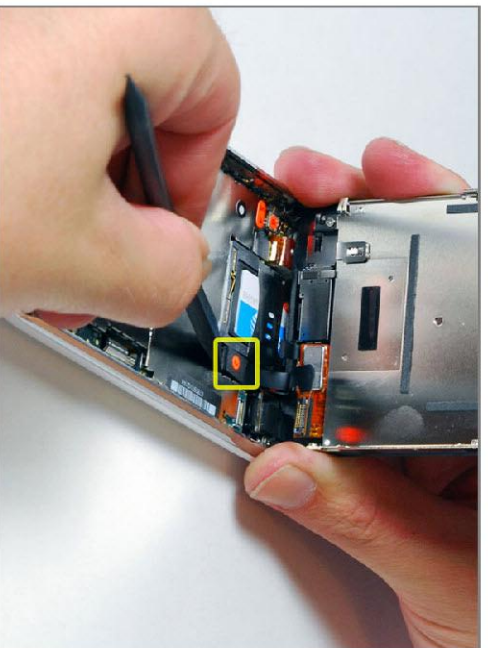
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



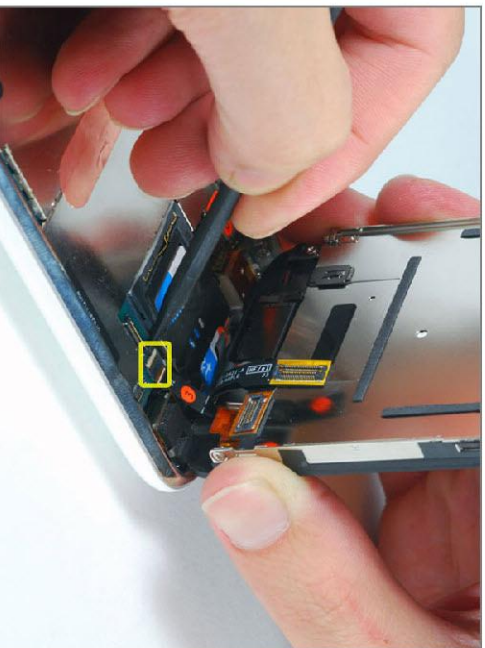
### Step 4

- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."



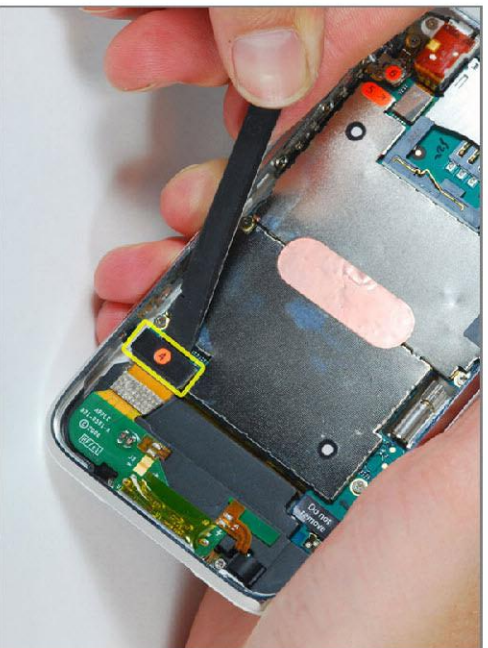
### Step 6

- Some iPhone 3Gs may have the connector colors reversed (black plastic tab, white connector). Make sure you're flipping up the tab properly, otherwise you may damage the connector.
- Use a spudger to flip up the white plastic tab holding the remaining ribbon cable in place. The white tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the black ribbon cable out of its connector, and remove the display assembly from the iPhone.



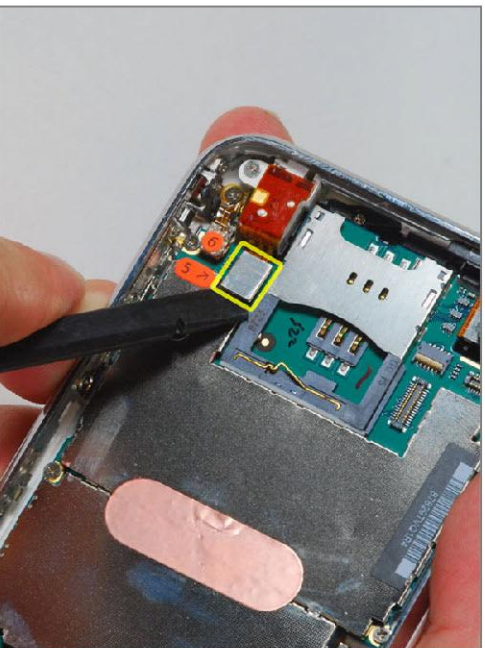
### Step 7

- Insert your SIM eject tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.
- Grasp the SIM card tray and slide it out of the iPhone.



### Step 8

- Use a spudger to disconnect the ribbon cable labeled "4."



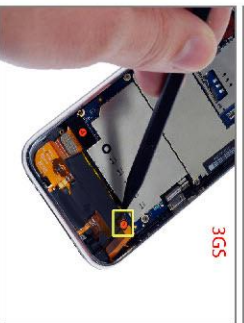
**Step 9**

- Use a spudger to disconnect the ribbon cable labeled "5."



**Step 10**

- Use a spudger to disconnect the ribbon cable labeled "6."
- If you have an iPhone 3GS, refer to picture 2 and use a spudger to disconnect the ribbon cable labeled "7."

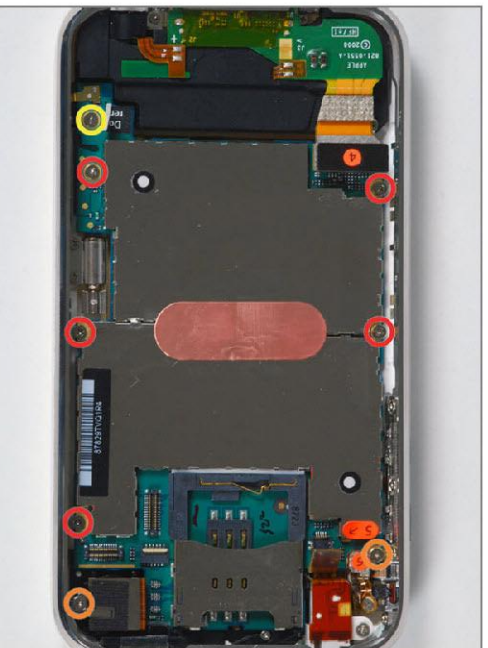






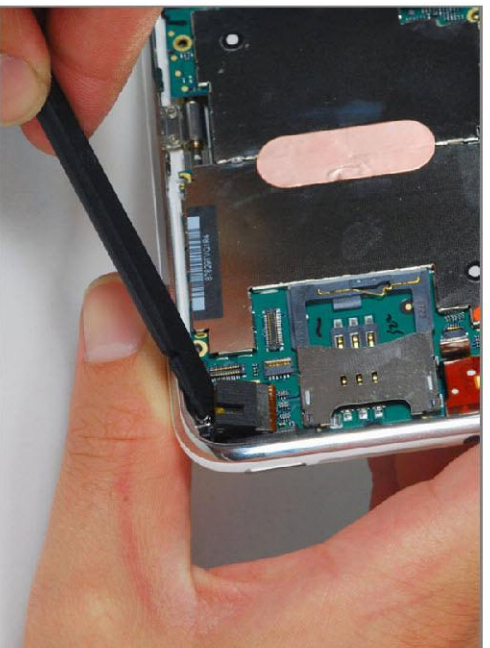
### Step 11

- Carefully peel up the small sticker labeled "Do not remove."



### Step 12

- Remove the following 8 screws:
  - Five 2.3 mm Phillips #00 screws with partial threads securing the logic board to the rear panel.
  - Two 2.3 mm Phillips #00 screws with full threads securing the logic board and camera.
  - One 2.9 mm Phillips #00 screw from beneath the "Do not remove" sticker.



### Step 13

- Use a spudger to gently pry the camera up and out of its housing in the rear panel. The camera cannot be removed entirely yet because it's connected to the bottom of the logic board.



#### **Step 14**

- Use a spudger to gently pry up the end of the logic board closest to the dock connector.
- If the board won't lift up, double check to make sure all the screws securing the logic board have been removed.



#### **Step 15**

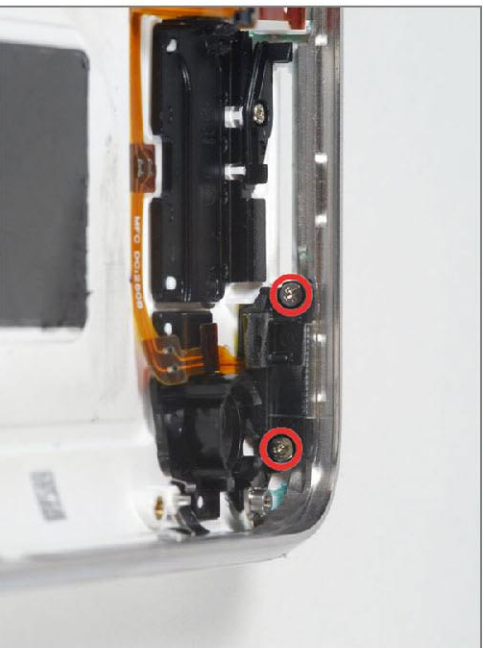
- Slide the logic board towards the dock connector and out of the iPhone.



#### **Step 16**

- Use a spudger to pry the battery up from the rear panel. The battery is attached with an adhesive strip around the perimeter of the battery. To prevent the battery from bending during the removal process, we recommend against using just the plastic pull-tab .





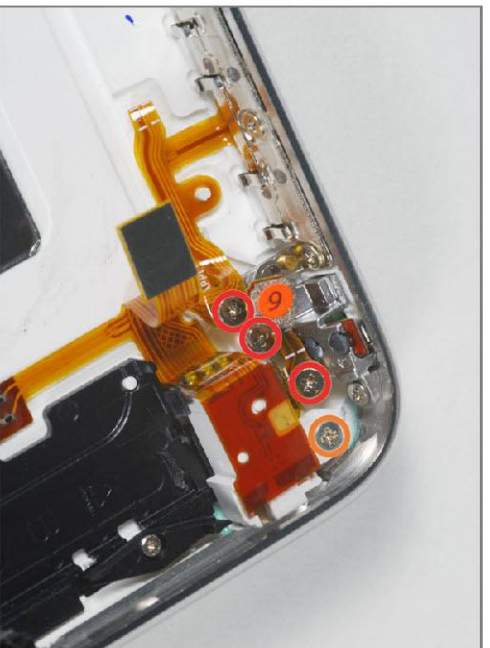
### **Step 17 - Installing iPhone 3G Headphone Jack**

- Remove the two Phillips #00 screws securing the on/off switch to the front bezel.



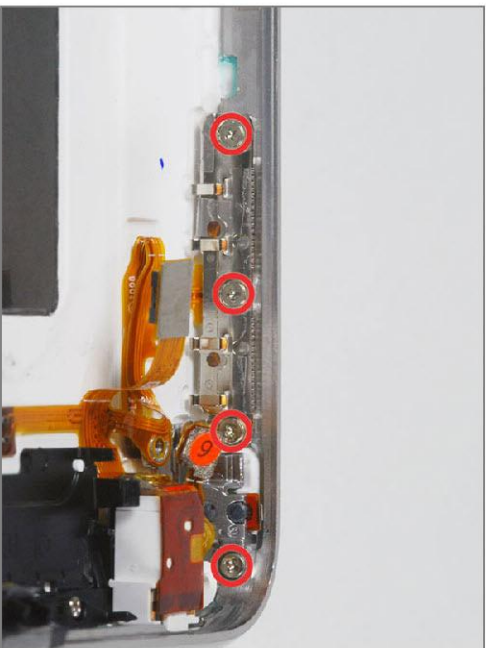
### **Step 18**

- Carefully peel up the orange ribbon cable from the rear panel.



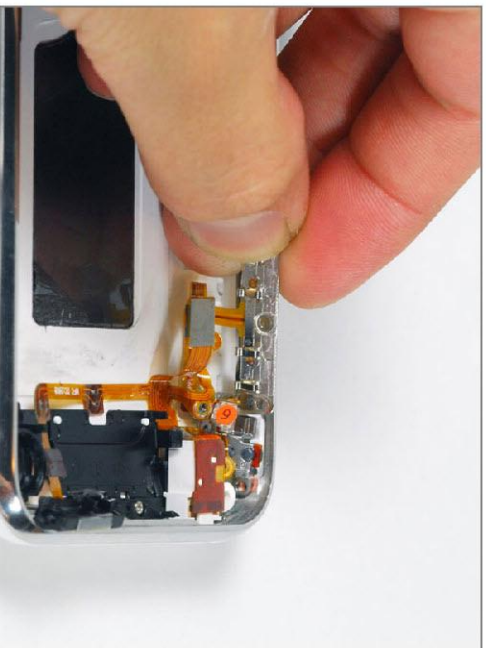
### **Step 19**

- Remove the following 4 screws:
  - Three 1.8 mm Phillips #00 screws securing the headphone jack and GPS antenna to the rear panel.
  - One 3.8 mm Phillips #00 screw in the plastic loop near the headphone jack.



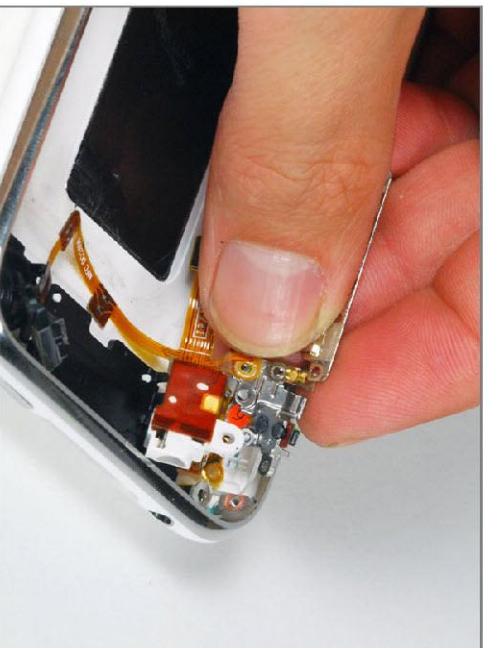
### Step 20

- Remove the four Phillips #00 screws securing the volume and vibrate buttons.



### Step 21

- Lift the volume button circuitry away from the side of the iPhone, and carefully peel up the orange ribbon cable from the rear panel.



### Step 22

- Carefully lift the headphone jack assembly out of the iPhone.



**Step 23 - Installing iPhone 3G Vibrate/Ring Switch**

- Lift the vibrate button out of the iPhone.

# Installing iPhone 3GS Dock Connector

## Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)



## Step 1 - Installing iPhone 3G Dock Connector

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



## Step 2

- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.





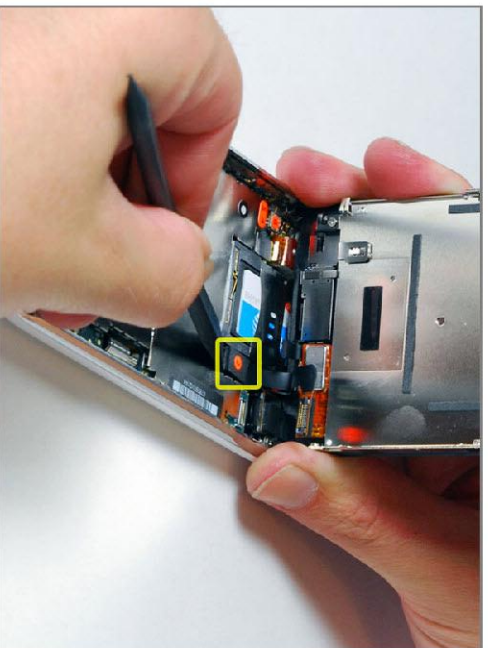
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



### Step 4

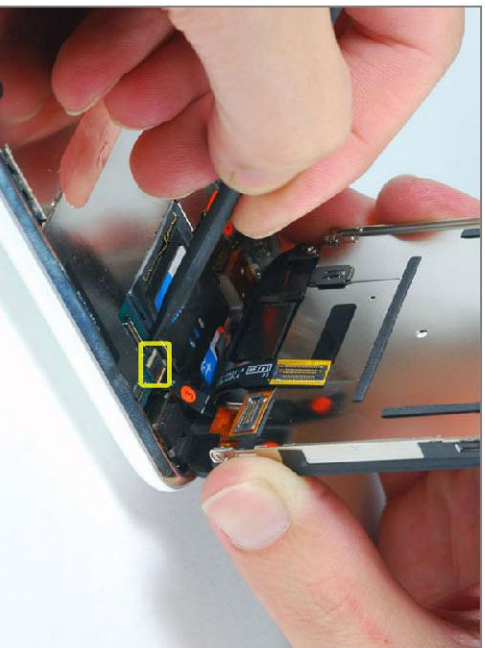
- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."





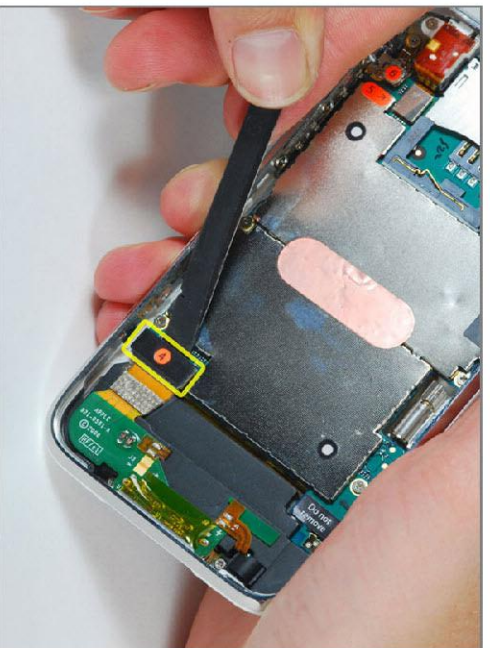
### Step 6

- Use a spudger to flip up the white plastic tab holding the remaining ribbon cable in place. The white tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the black ribbon cable out of its connector, and remove the display assembly from the iPhone.



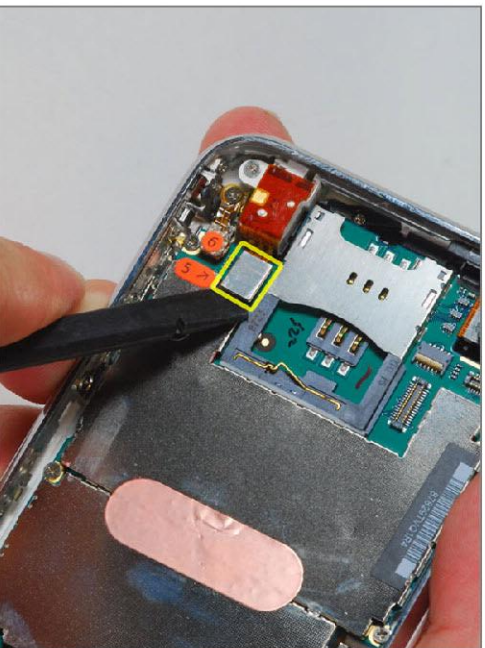
### Step 7

- Insert your SIM eject tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.
- Grasp the SIM card tray and slide it out of the iPhone.



### Step 8

- Use a spudger to disconnect the ribbon cable labeled "4."



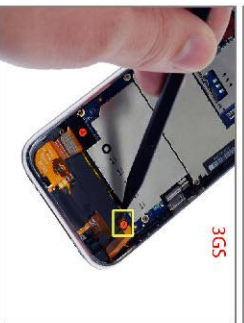
**Step 9**

- Use a spudger to disconnect the ribbon cable labeled "5."



**Step 10**

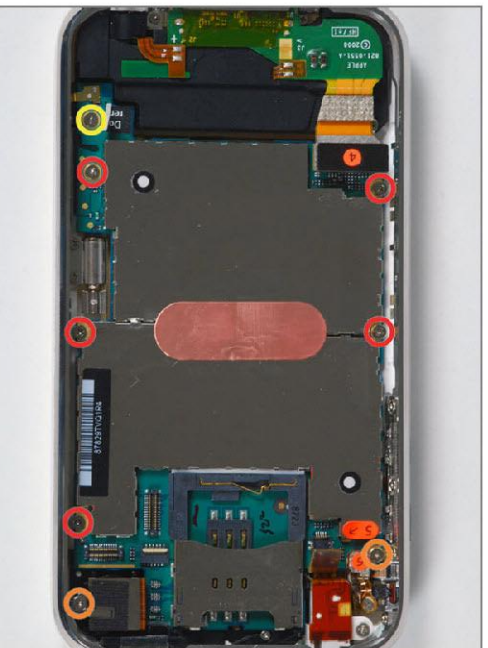
- Use a spudger to disconnect the ribbon cable labeled "6."
- If you have an iPhone 3GS, refer to picture 2 and use a spudger to disconnect the ribbon cable labeled "7."





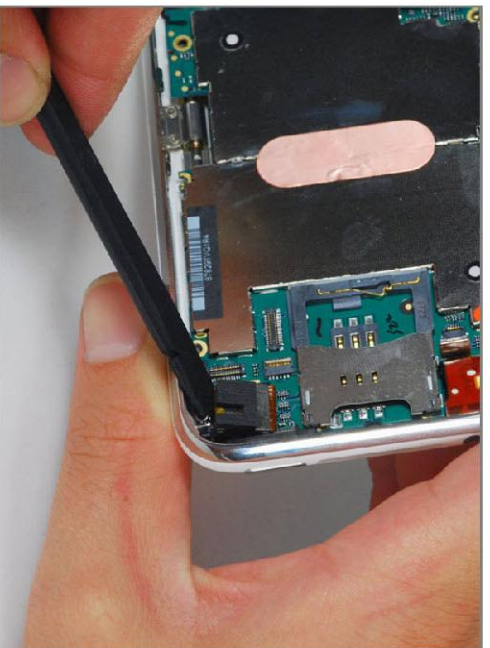
### Step 11

- Carefully peel up the small sticker labeled "Do not remove."



### Step 12

- Remove the following 8 screws:
  - Five 2.3 mm Phillips #00 screws with partial threads securing the logic board to the rear panel.
  - Two 2.3 mm Phillips #00 screws with full threads securing the logic board and camera.
  - One 2.9 mm Phillips #00 screw from beneath the "Do not remove" sticker.



### Step 13

- Use a spudger to gently pry the camera up and out of its housing in the rear panel. The camera cannot be removed entirely yet because it's connected to the bottom of the logic board.





#### Step 14

- Use a spudger to gently pry up the end of the logic board closest to the dock connector.
- If the board won't lift up, double check to make sure all the screws securing the logic board have been removed.



#### Step 15

- Slide the logic board towards the dock connector and out of the iPhone.



#### Step 16

- Remove the following 3 screws:
  - Two 1.5 mm Phillips #00 screws, one on either side of the dock connector.
  - One 2.4 mm Phillips #00 screw near the ribbon cable labeled "4."





**Step 17**

- Lift the dock connector assembly up and out of the iPhone.

# Installing iPhone 3GS Front Panel

## Tools used in this guide

- [Adhesive strips](#)
- [Heat gun or hair dryer](#)
- [Metal Spudger](#)
- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)

## Parts relevant to this guide

- [iPhone 3G Front Panel](#)



## Step 1 - Installing iPhone 3G Display

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



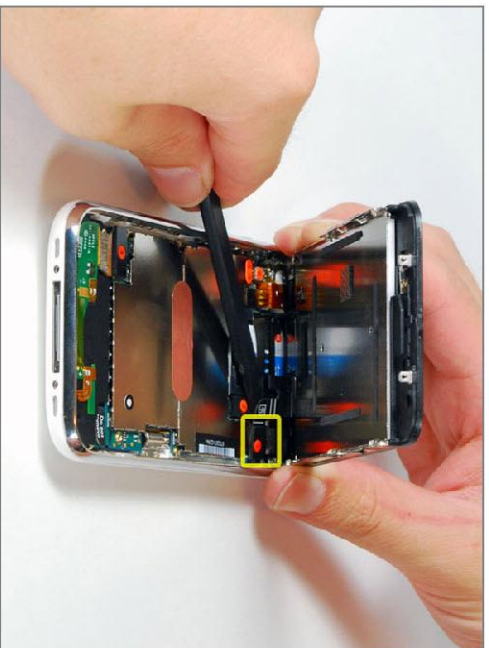
## Step 2

- Remove the metal handle from the suction cup. It's easier and safer to grip the suction cup's base instead of the metal handle.
- Be very careful when opening the iPhone so that the cables under the display are not severed.
- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.



## Step 3

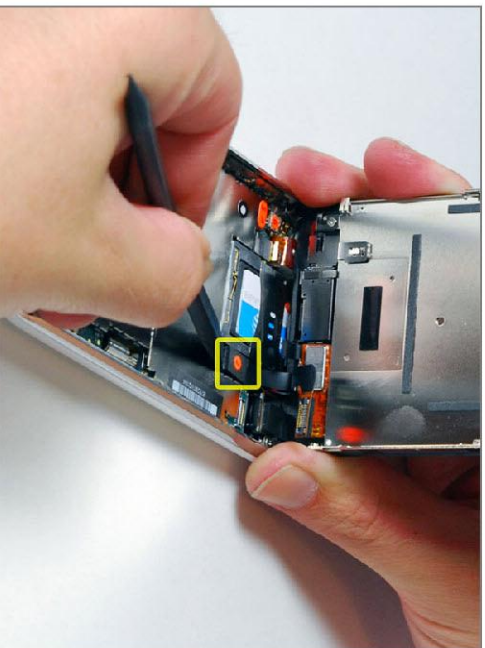
- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



## Step 4

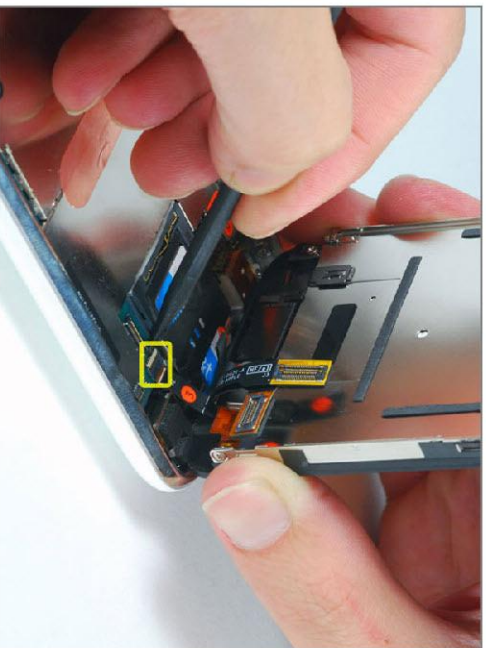
- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."





### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."



### Step 6

- Use a spudger to flip up the black plastic tab holding the remaining ribbon cable in place. The black will rotate up 90 degrees, releasing the ribbon cable.
- The plastic tab may be white (instead of black) on some iPhone models.
- Slide the ribbon cable out of its connector, and remove the display assembly from the iPhone.



### Step 7

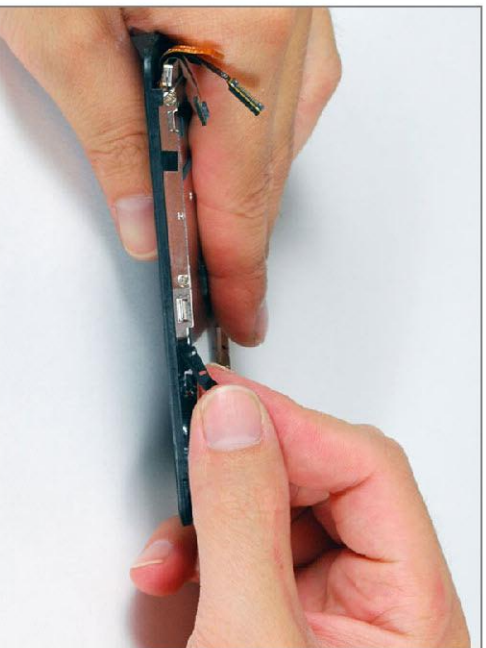
- Remove the single Phillips #00 screw from the corner of the display assembly.





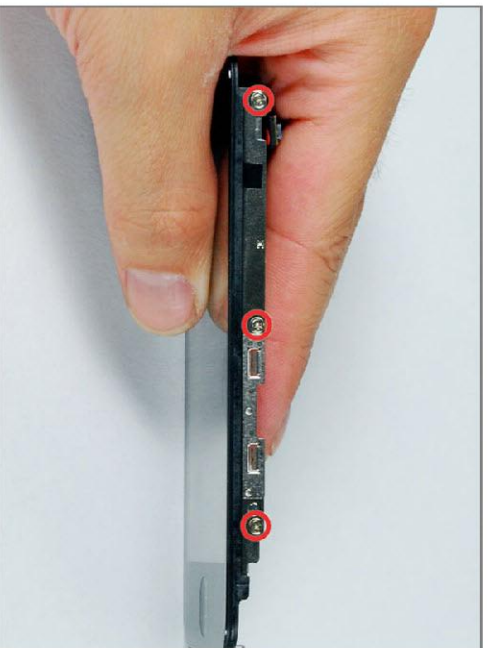
### Step 8

- Remove the two Phillips #00 screws from the right side of the display assembly.



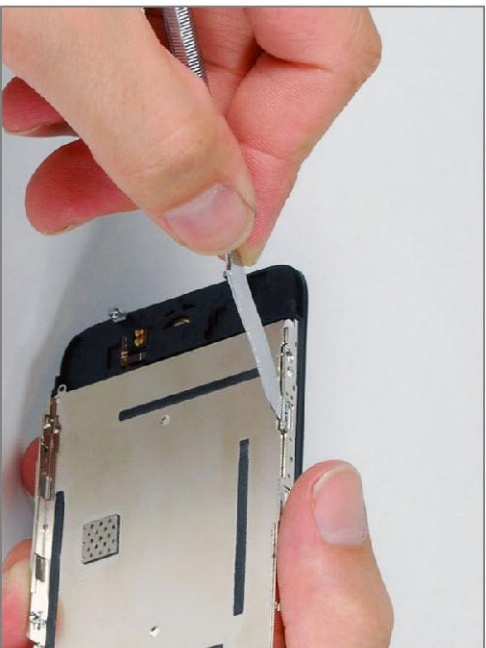
### Step 9

- Turn the display over, and carefully peel up the thin strip of black tape on the edge of the display assembly.
- Keeping the tape from sticking to itself can be tricky. We recommend placing the tape on a wax-coated piece of paper (any sticker backing will do).



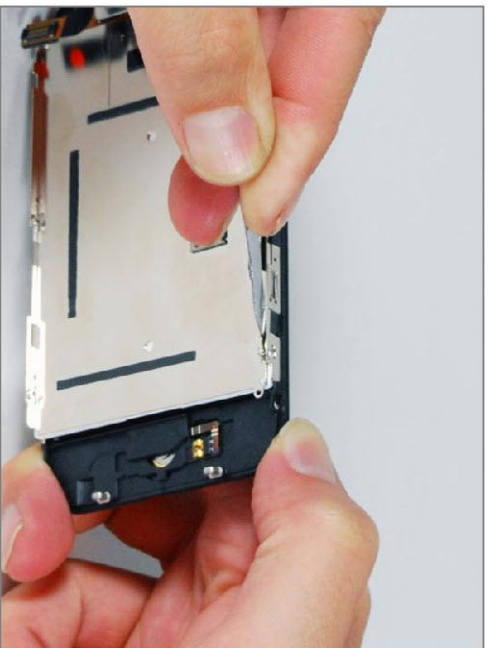
### Step 10

- Remove the three Phillips #00 screws from the left side of the display assembly.



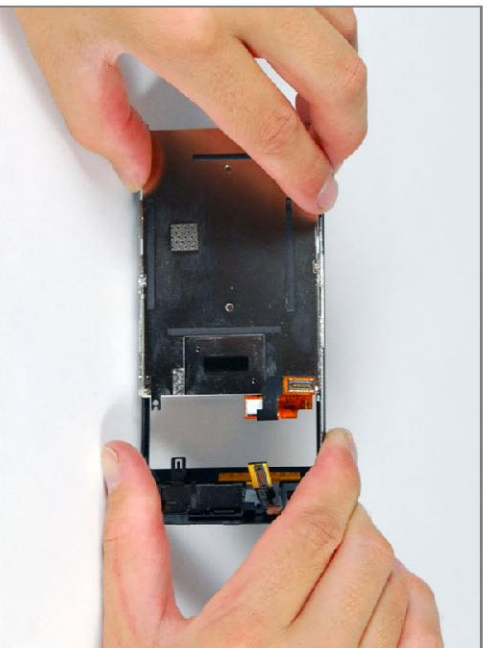
**Step 11**

- Carefully insert a metal spudger between the two metal rails along the edge of the display assembly. Gently rotate the spudger to lift the LCD up from the glass.



**Step 12**

- Turn the display assembly over and again carefully insert a metal spudger between the two metal rails along the edge of the display assembly. Gently rotate the spudger to lift the LCD up from the glass.



**Step 13**

- Separate the LCD and glass by sliding the LCD panel away from the ribbon cables on the glass.



#### ***Step 14 - Installing iPhone 3G Front Panel***

- This is what should be left after removing the LCD.

#### ***Step 15***

- Be careful when using a heat gun in the forthcoming steps. Use it at a very low heat setting, and make sure not to melt the touch screen plastics or Home button.



- Using a heat gun or hairdryer, heat the top left area of the touch screen.
- Use your fingernails to slowly lift up the left corner. The touch screen plastics are held to the touch screen with adhesive. It may take some work to free the corners.



- If it seems like too much force is being applied to lift the touch screen plastics, try using the heat gun again.
- Heat and repeat for the right side.

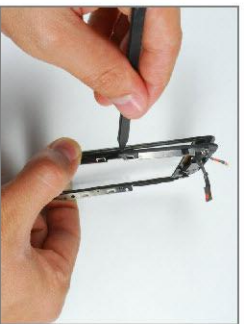






### Step 16

- Once the top is free, use the heat gun to heat the sides of the touch screen.
- Use a spudger to free the sides of the touch screen plastics.

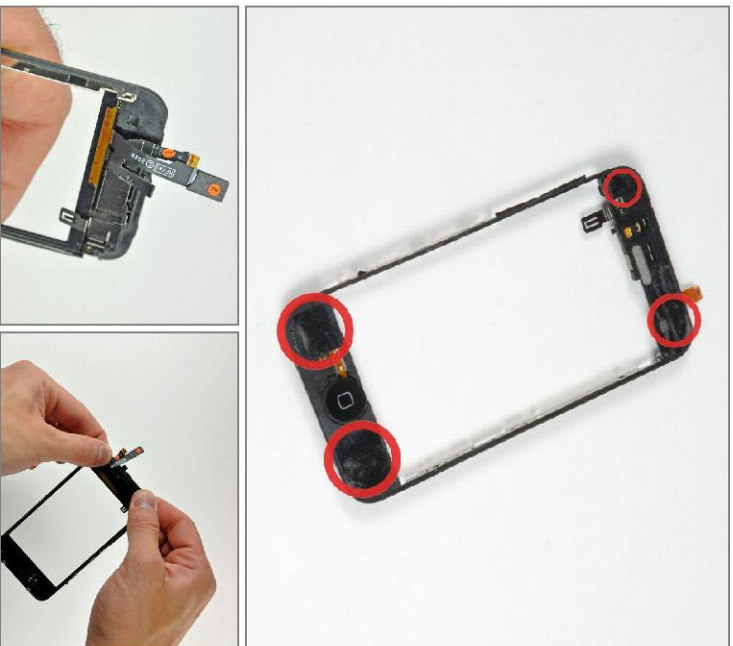


### Step 17

- Heat the bottom corners with the heat gun.
- Again, use your fingernails to free the corners.
- Remove the touch screen plastics from the touch screen.







### Step 18

- Place [custom fit adhesive strips](#) or double stick tape on the open areas of the touch screen plastics.
- When reattaching the plastics to the glass, make sure the "#2" cable is routed as shown in the second picture.
- Reattach the plastic frame to the glass. Pinch each corner for 60 seconds to allow the tape time to bond the two surfaces.



# Installing iPhone 3GS Display

## Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)

## Parts relevant to this guide

- [iPhone 3GS Display](#)



## Step 1 - Installing iPhone 3G Display

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



## Step 2

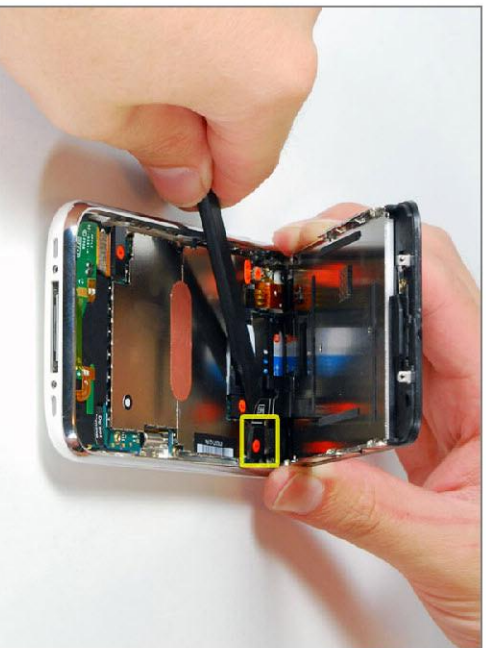
- Remove the metal handle from the suction cup. It's easier and safer to grip the suction cup's base instead of the metal handle.
- Be very careful when opening the iPhone so that the cables under the display are not severed.
- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.





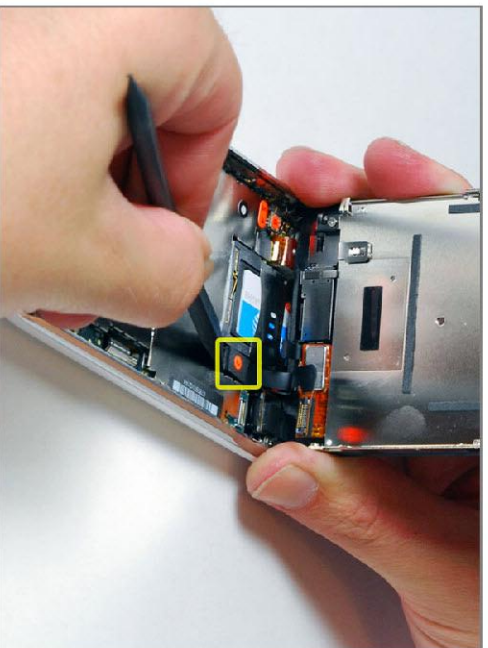
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



### Step 4

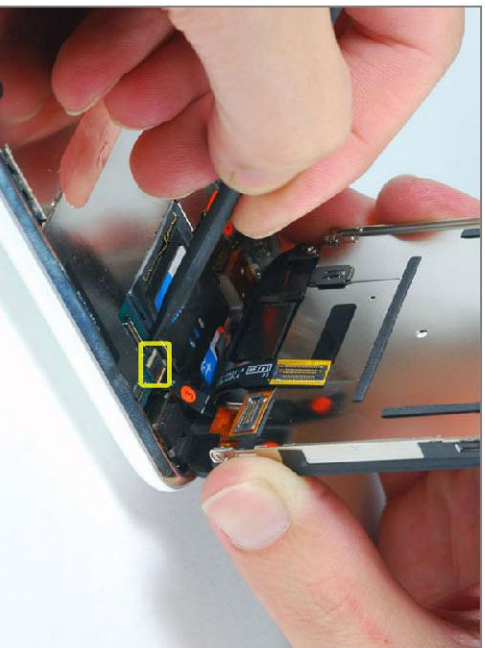
- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."





### Step 6

- Use a spudger to flip up the black plastic tab holding the remaining ribbon cable in place. The black will rotate up 90 degrees, releasing the ribbon cable.
- The plastic tab may be white (instead of black) on some iPhone models.
- Slide the ribbon cable out of its connector, and remove the display assembly from the iPhone.



### Step 7

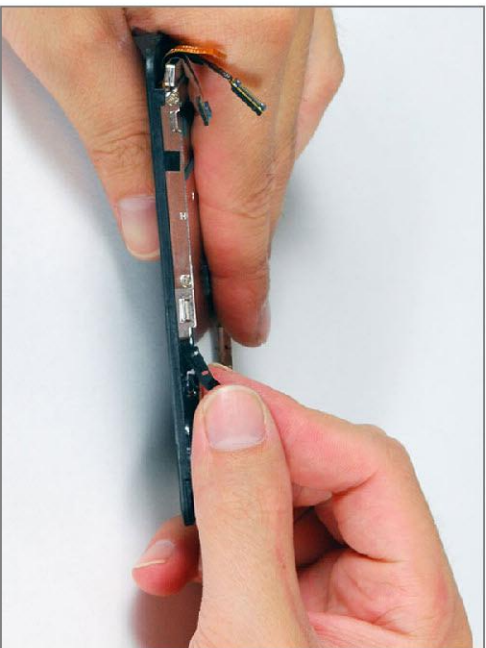
- Remove the single Phillips #00 screw from the corner of the display assembly.



### Step 8

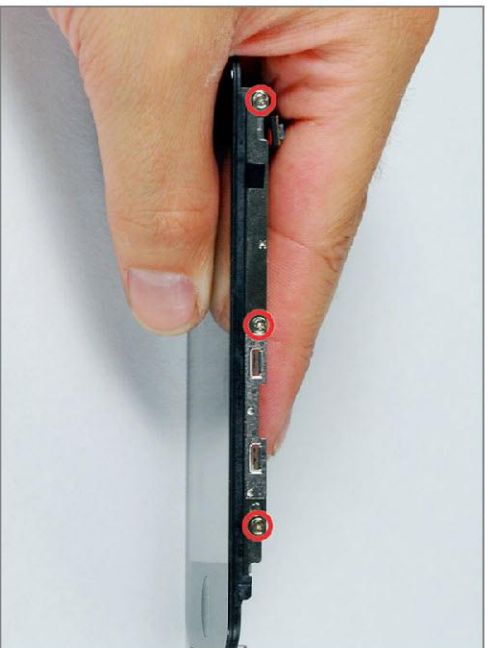
- Remove the two Phillips #00 screws from the right side of the display assembly.





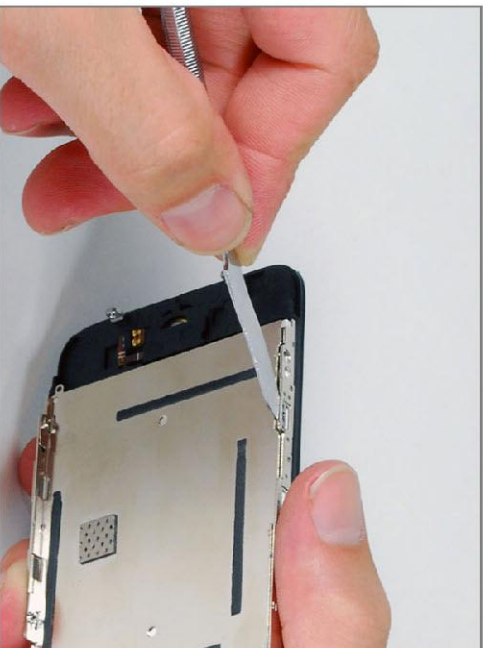
### Step 9

- Turn the display over, and carefully peel up the thin strip of black tape on the edge of the display assembly.
- Keeping the tape from sticking to itself can be tricky. We recommend placing the tape on a wax-coated piece of paper (any sticker backing will do).



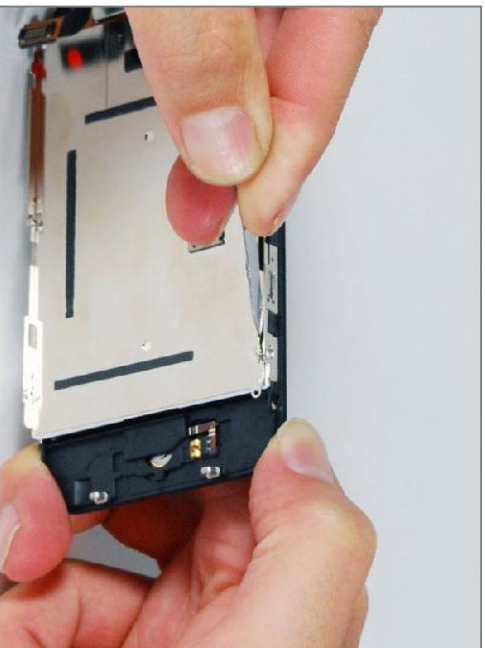
### Step 10

- Remove the three Phillips #00 screws from the left side of the display assembly.



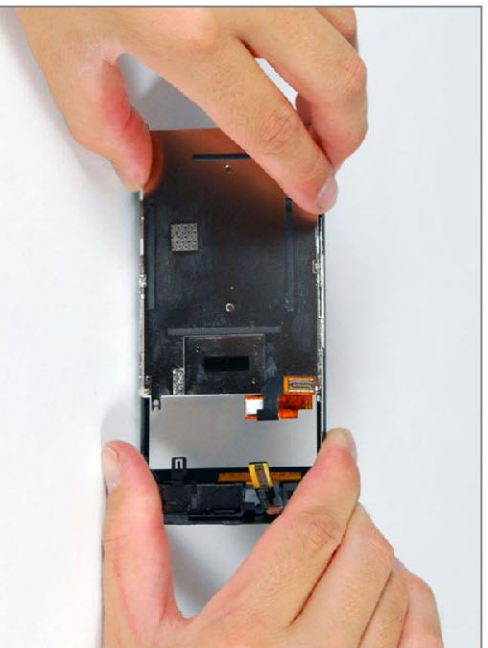
### Step 11

- Carefully insert a metal spudger between the two metal rails along the edge of the display assembly. Gently rotate the spudger to lift the LCD up from the glass.



**Step 12**

- Turn the display assembly over and again carefully insert a metal spudger between the two metal rails along the edge of the display assembly. Gently rotate the spudger to lift the LCD up from the glass.



**Step 13**

- Separate the LCD and glass by sliding the LCD panel away from the ribbon cables on the glass.

## Installing iPhone 3GS Camera

### Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)



### Step 1 - *Installing iPhone 3G Camera*

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



### Step 2

- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.





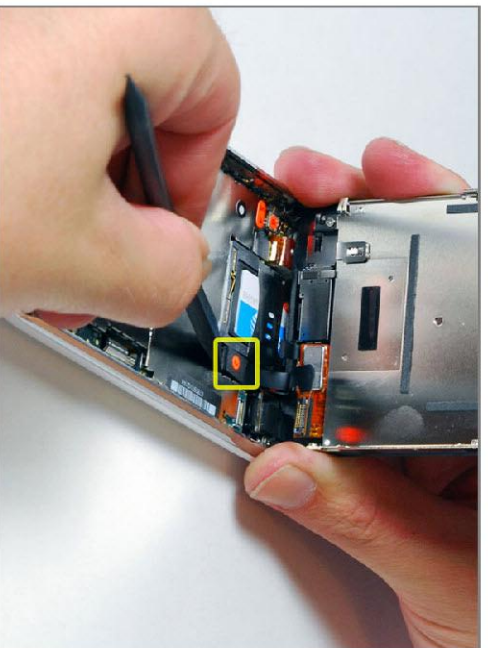
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



### Step 4

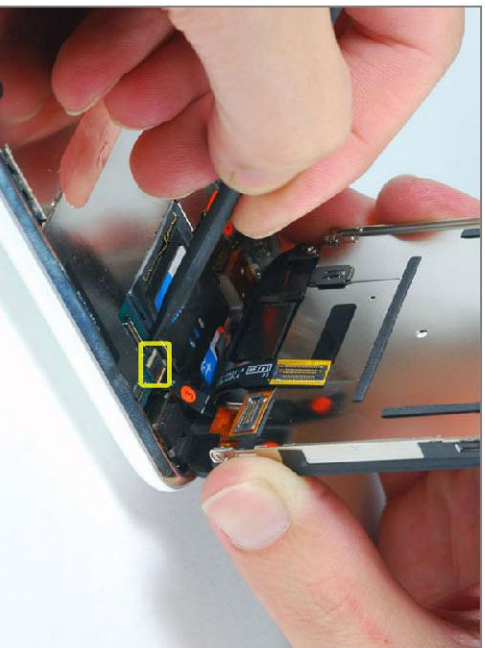
- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."





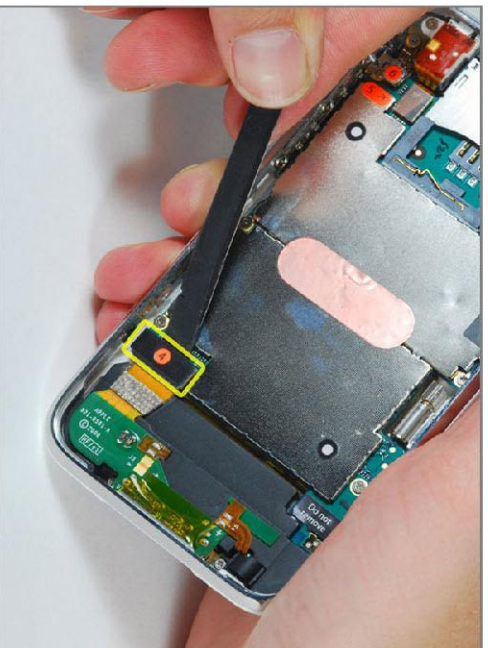
### Step 6

- Use a spudger to flip up the white plastic tab holding the remaining ribbon cable in place. The white tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the black ribbon cable out of its connector, and remove the display assembly from the iPhone.



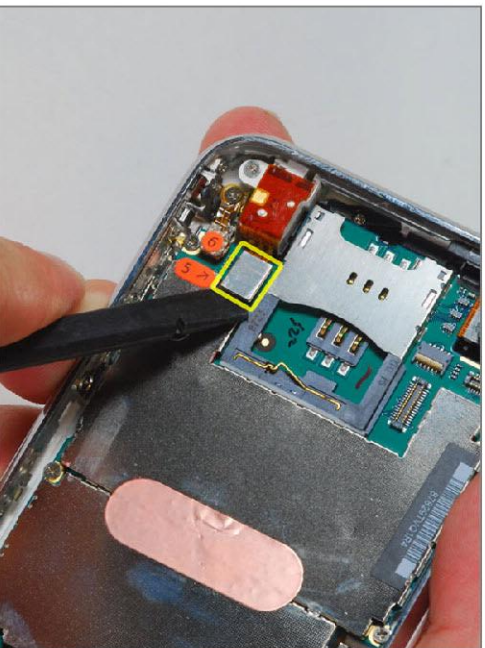
### Step 7

- Insert your SIM eject tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.
- Grasp the SIM card tray and slide it out of the iPhone.



### Step 8

- Use a spudger to disconnect the ribbon cable labeled "4."



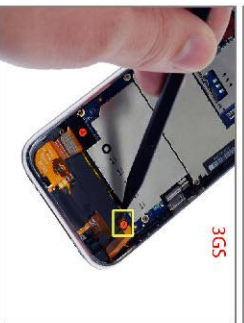
**Step 9**

- Use a spudger to disconnect the ribbon cable labeled "5."



**Step 10**

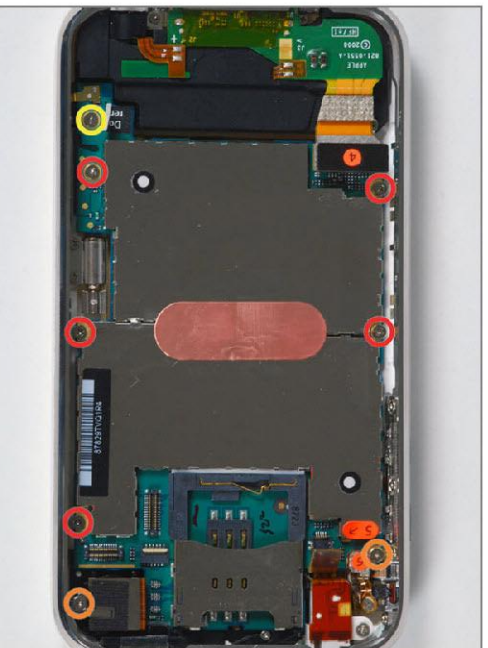
- Use a spudger to disconnect the ribbon cable labeled "6."
- If you have an iPhone 3GS, refer to picture 2 and use a spudger to disconnect the ribbon cable labeled "7."





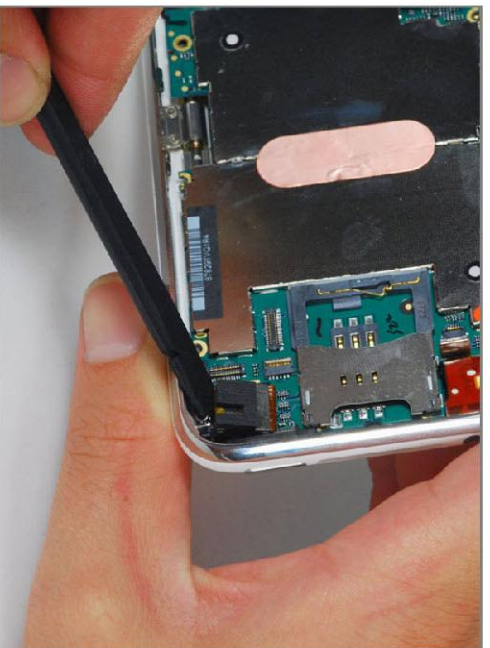
### Step 11

- Carefully peel up the small sticker labeled "Do not remove."



### Step 12

- Remove the following 8 screws:
  - Five 2.3 mm Phillips #00 screws with partial threads securing the logic board to the rear panel.
  - Two 2.3 mm Phillips #00 screws with full threads securing the logic board and camera.
  - One 2.9 mm Phillips #00 screw from beneath the "Do not remove" sticker.



### Step 13

- Use a spudger to gently pry the camera up and out of its housing in the rear panel. The camera cannot be removed entirely yet because it's connected to the bottom of the logic board.





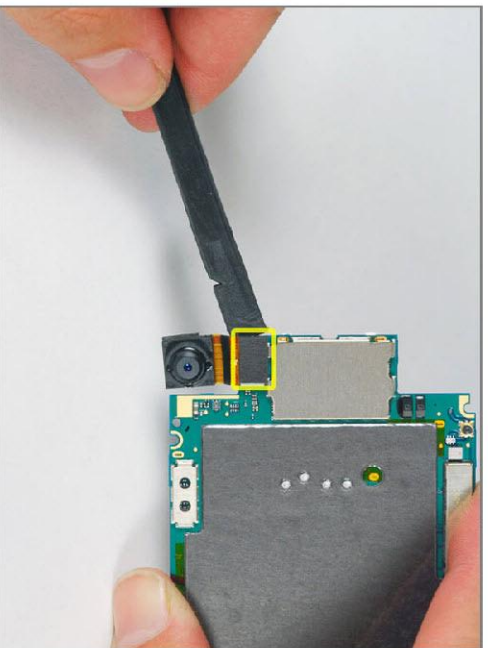
#### **Step 14**

- Use a spudger to gently pry up the end of the logic board closest to the dock connector.
- If the board won't lift up, double check to make sure all the screws securing the logic board have been removed.



#### **Step 15**

- Slide the logic board towards the dock connector and out of the iPhone.



#### **Step 16**

- Use a spudger to disconnect the camera from the logic board.



## Installing iPhone 3GS Rear Panel

### Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)



### Step 1 - Installing iPhone 3G Battery

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



### Step 2

- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.



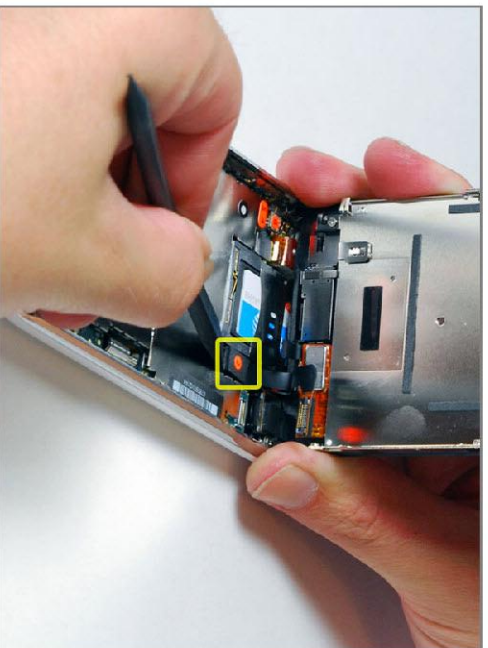
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



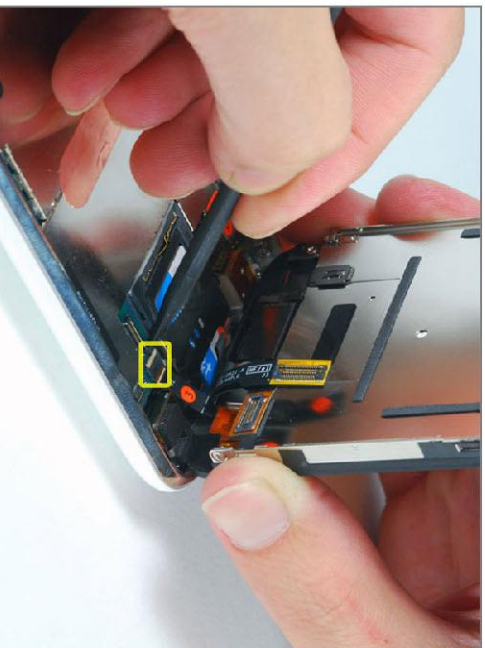
### Step 4

- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."



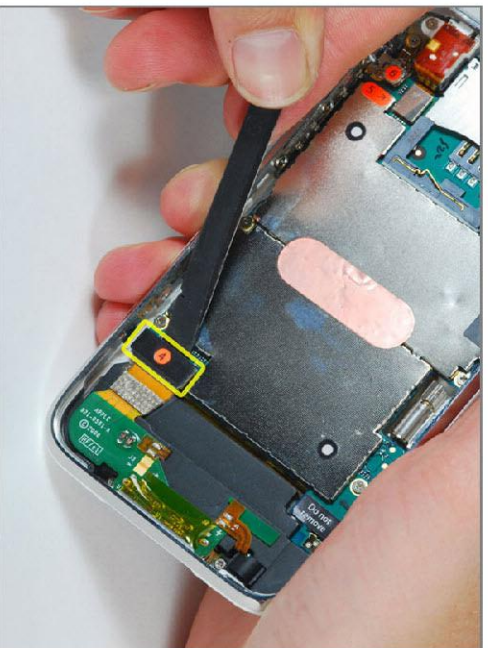
### Step 6

- Some iPhone 3Gs may have the connector colors reversed (black plastic tab, white connector). Make sure you're flipping up the tab properly, otherwise you may damage the connector.
- Use a spudger to flip up the white plastic tab holding the remaining ribbon cable in place. The white tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the black ribbon cable out of its connector, and remove the display assembly from the iPhone.



### Step 7

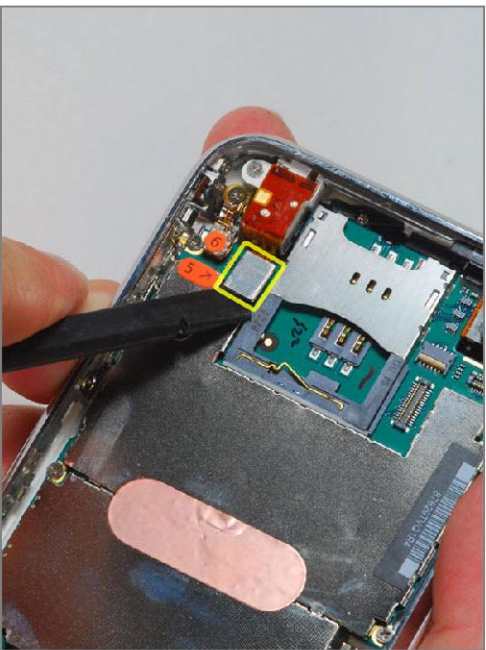
- Insert your SIM eject tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.
- Grasp the SIM card tray and slide it out of the iPhone.



### Step 8

- Use a spudger to disconnect the ribbon cable labeled "4."





**Step 9**

- Use a spudger to disconnect the ribbon cable labeled "5."



**Step 10**

- Use a spudger to disconnect the ribbon cable labeled "6."
- If you have an iPhone 3GS, refer to picture 2 and use a spudger to disconnect the ribbon cable labeled "7."

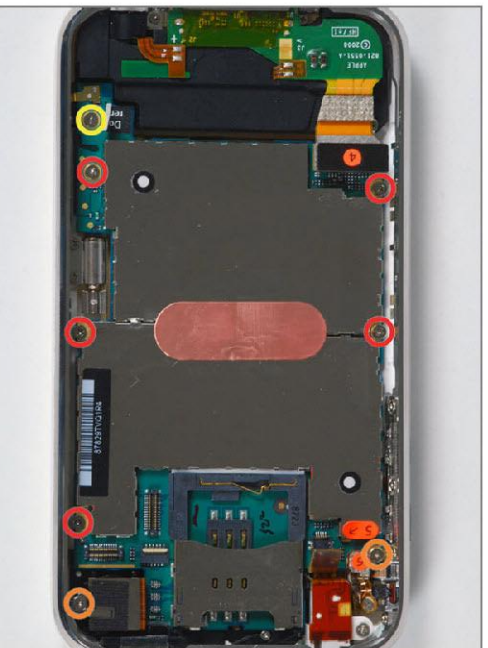






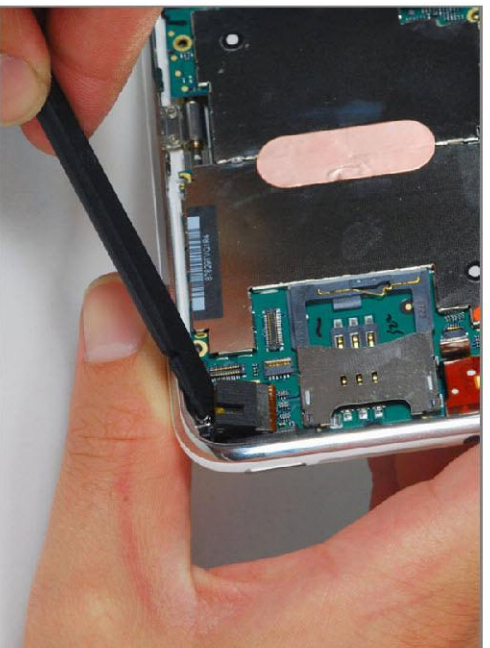
### Step 11

- Carefully peel up the small sticker labeled "Do not remove."



### Step 12

- Remove the following 8 screws:
  - Five 2.3 mm Phillips #00 screws with partial threads securing the logic board to the rear panel.
  - Two 2.3 mm Phillips #00 screws with full threads securing the logic board and camera.
  - One 2.9 mm Phillips #00 screw from beneath the "Do not remove" sticker.



### Step 13

- Use a spudger to gently pry the camera up and out of its housing in the rear panel. The camera cannot be removed entirely yet because it's connected to the bottom of the logic board.



#### **Step 14**

- Use a spudger to gently pry up the end of the logic board closest to the dock connector.
- If the board won't lift up, double check to make sure all the screws securing the logic board have been removed.



#### **Step 15**

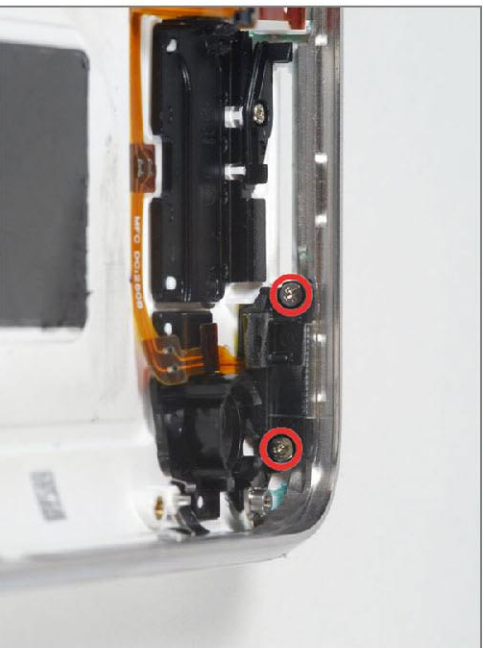
- Slide the logic board towards the dock connector and out of the iPhone.



#### **Step 16**

- Use a spudger to pry the battery up from the rear panel. The battery is attached with an adhesive strip around the perimeter of the battery. To prevent the battery from bending during the removal process, we recommend against using just the plastic pull-tab .





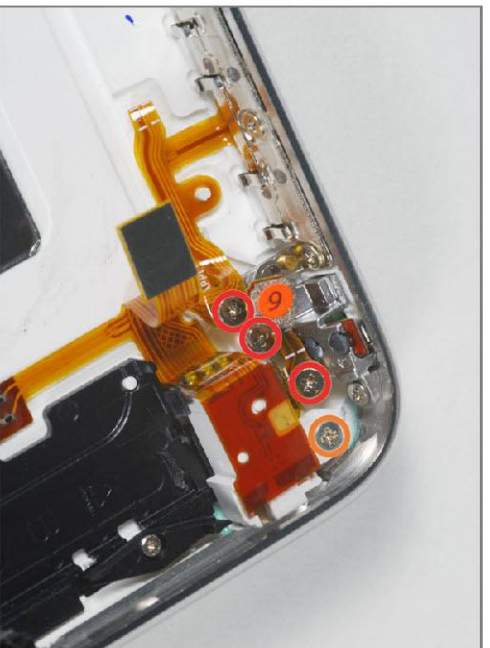
### **Step 17 - Installing iPhone 3G Headphone Jack**

- Remove the two Phillips #00 screws securing the on/off switch to the front bezel.



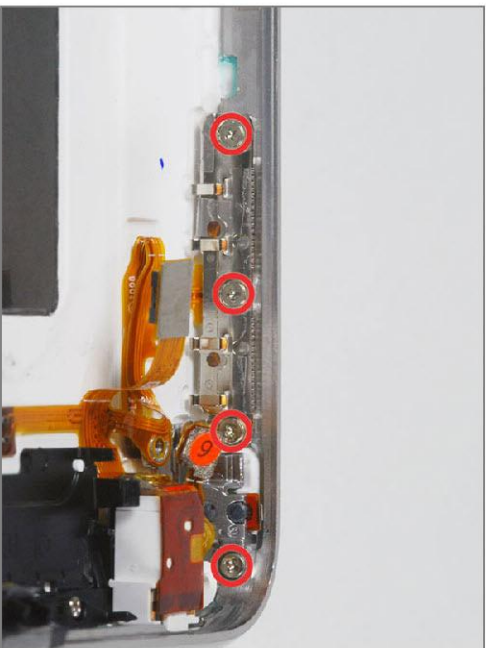
### **Step 18**

- Carefully peel up the orange ribbon cable from the rear panel.



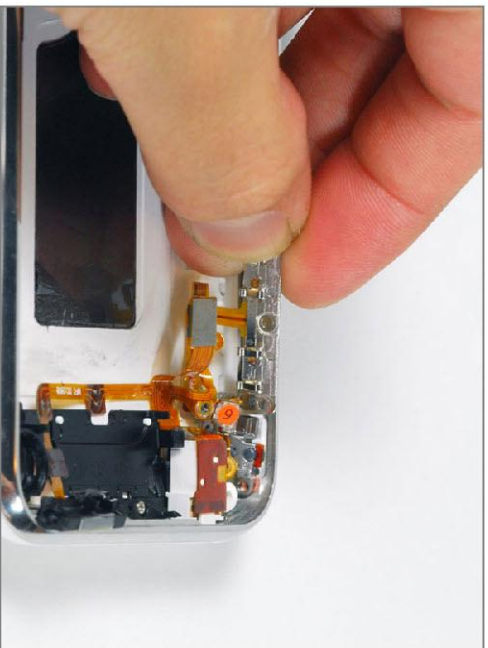
### **Step 19**

- Remove the following 4 screws:
  - Three 1.8 mm Phillips #00 screws securing the headphone jack and GPS antenna to the rear panel.
  - One 3.8 mm Phillips #00 screw in the plastic loop near the headphone jack.



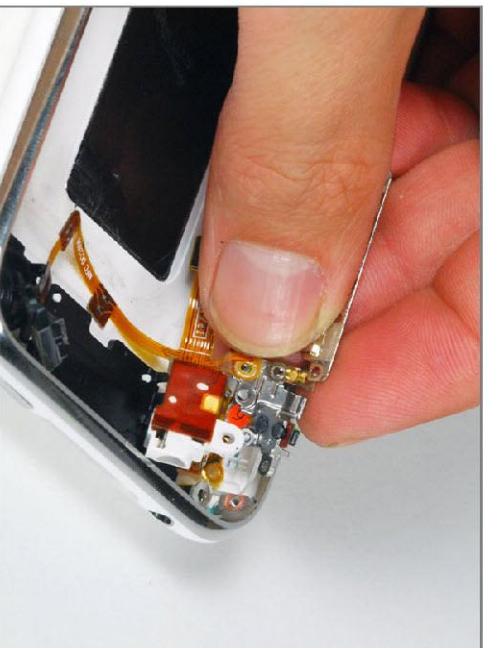
### Step 20

- Remove the four Phillips #00 screws securing the volume and vibrate buttons.



### Step 21

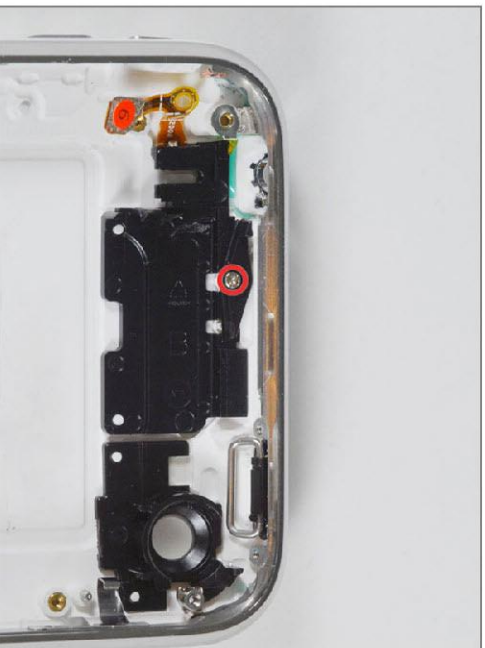
- Lift the volume button circuitry away from the side of the iPhone, and carefully peel up the orange ribbon cable from the rear panel.



### Step 22

- Carefully lift the headphone jack assembly out of the iPhone.





**Step 23 - Installing iPhone 3G GPS Antenna**

- Remove the single Phillips #00 screw securing the black plastic spacer.



**Step 24**

- Use a spudger to pry up the black plastic antenna housing from the rear panel.
- Lift the black plastic antenna housing out of the iPhone.



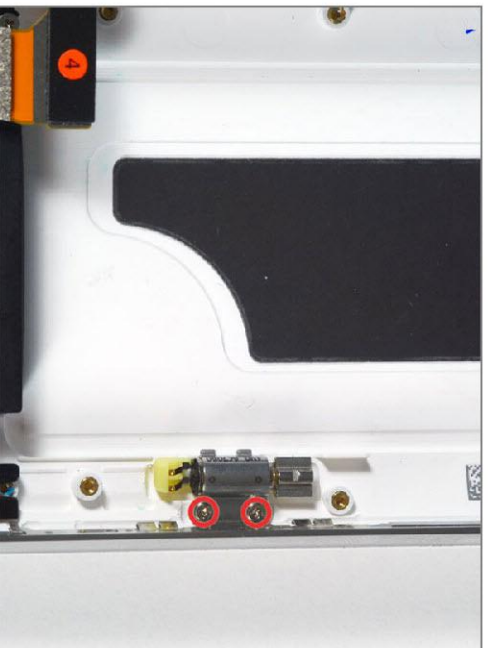
**Step 25 - Installing iPhone 3G Rear Panel**

- Remove the on/off switch button from the iPhone.



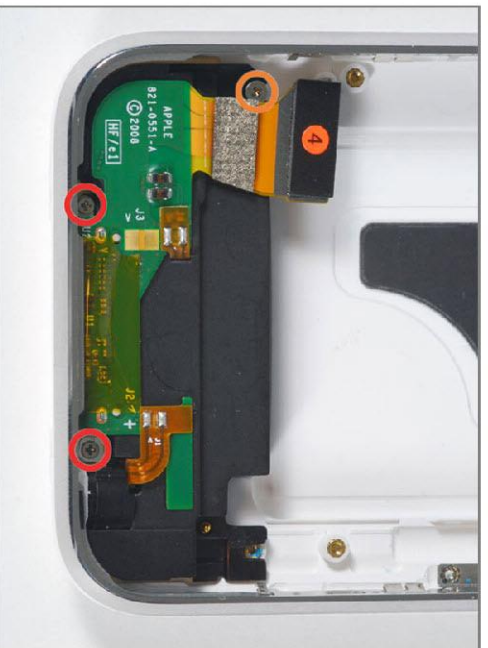
### Step 26

- Remove the vibrator button from the iPhone.



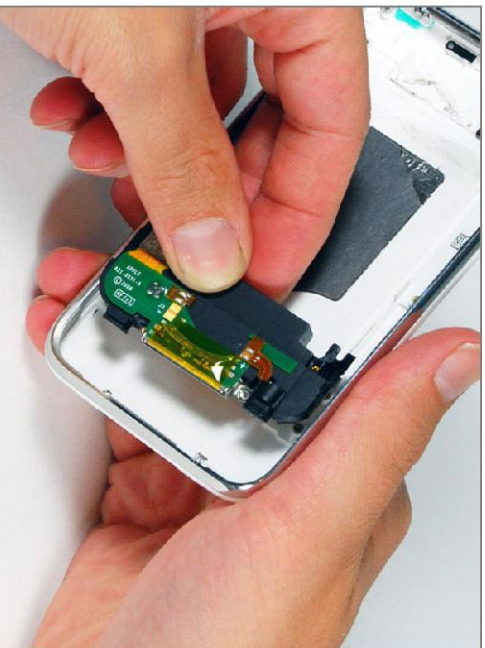
### Step 27

- Remove the two Phillips #00 screws securing the vibrator to the rear panel.
- Lift the vibrator up and out of the iPhone.



### Step 28

- Remove the following 3 screws:
  - Two 1.5 mm Phillips #00 screws, one on either side of the dock connector.
  - One 2.4 mm Phillips #00 screw near the ribbon cable labeled "4."



**Step 29**

- Lift the dock connector assembly up and out of the iPhone.



**Step 30**

- The rear panel and attached front bezel remain.

# Installing iPhone 3GS Battery

## Tools used in this guide

- [Phillips #00 Screwdriver](#)
- [Small suction cup](#)
- [Spudger](#)



## Step 1 - Installing iPhone 3G Battery

- Remove the two Phillips #00 screws from the dock-connector end of the iPhone.



## Step 2

- There is a rubber gasket between the silver front bezel and black display assembly. A bit of force is required in this step to separate the iPhone's display assembly.
- Use a small suction cup near the Home button to gently pull up the bottom portion of the iPhone's display assembly.





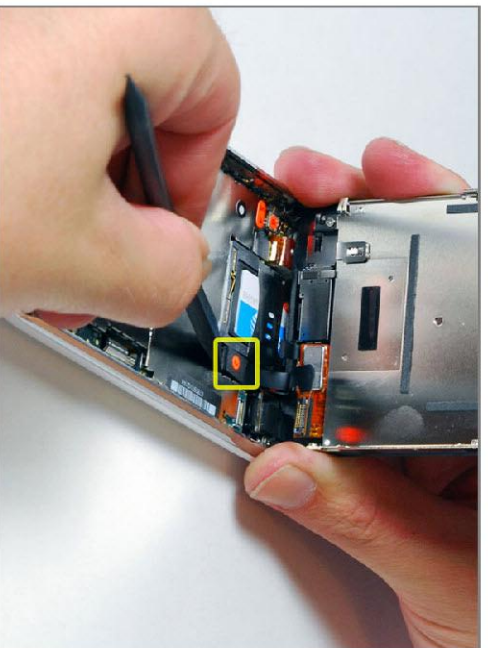
### Step 3

- The display assembly is still connected to the iPhone by several cables, so don't try to remove it entirely just yet.
- Rotate the display assembly up until it is at an angle of approximately 45 degrees.



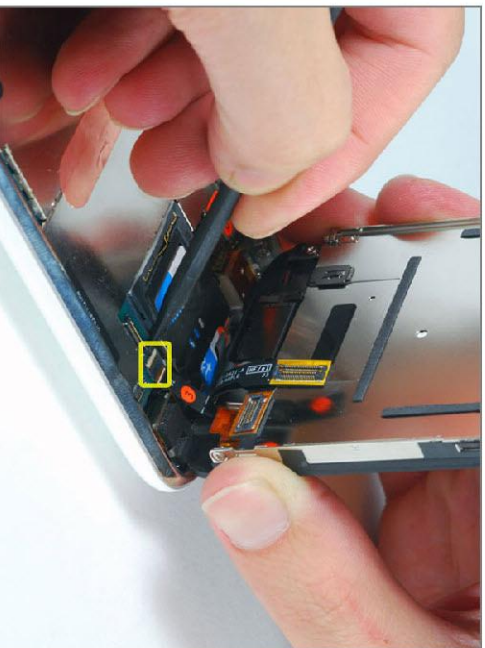
### Step 4

- Continue to hold the display assembly with one hand, and use your other hand and a spudger to disconnect the black ribbon cable labeled "1."



### Step 5

- Rotate the display assembly up until it is roughly vertical. This will allow easier access for disconnecting the remaining cables.
- Use a spudger to disconnect the black ribbon cable labeled "2."



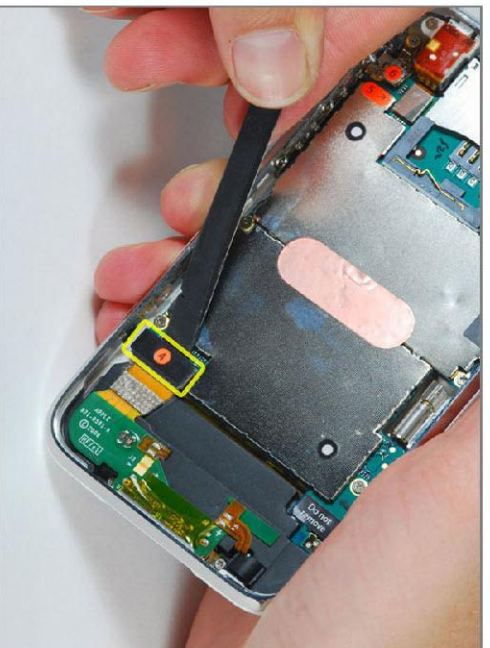
### Step 6

- Some iPhone 3Gs may have the connector colors reversed (black plastic tab, white connector). Make sure you're flipping up the tab properly, otherwise you may damage the connector.
- Use a spudger to flip up the white plastic tab holding the remaining ribbon cable in place. The white tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the black ribbon cable out of its connector, and remove the display assembly from the iPhone.



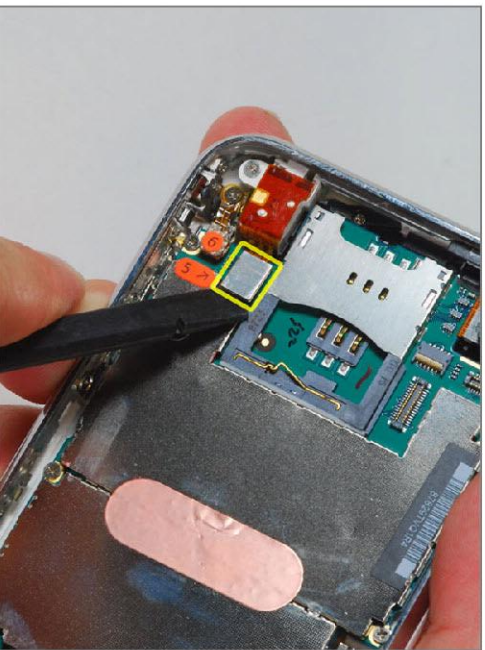
### Step 7

- Insert your SIM eject tool or a paper clip into the hole next to the headphone jack.
- Press down on the tool until the SIM card tray pops out.
- Grasp the SIM card tray and slide it out of the iPhone.



### Step 8

- Use a spudger to disconnect the ribbon cable labeled "4."



**Step 9**

- Use a spudger to disconnect the ribbon cable labeled "5."



**Step 10**

- Use a spudger to disconnect the ribbon cable labeled "6."
- If you have an iPhone 3GS, refer to picture 2 and use a spudger to disconnect the ribbon cable labeled "7."

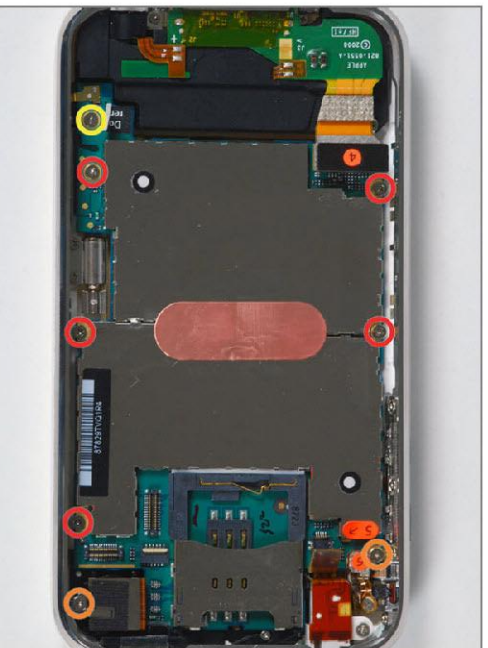






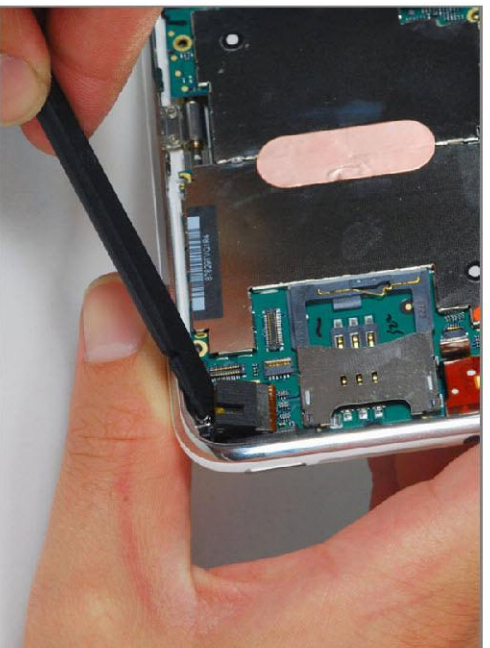
### Step 11

- Carefully peel up the small sticker labeled "Do not remove."



### Step 12

- Remove the following 8 screws:
  - Five 2.3 mm Phillips #00 screws with partial threads securing the logic board to the rear panel.
  - Two 2.3 mm Phillips #00 screws with full threads securing the logic board and camera.
  - One 2.9 mm Phillips #00 screw from beneath the "Do not remove" sticker.



### Step 13

- Use a spudger to gently pry the camera up and out of its housing in the rear panel. The camera cannot be removed entirely yet because it's connected to the bottom of the logic board.





#### Step 14

- Use a spudger to gently pry up the end of the logic board closest to the dock connector.
- If the board won't lift up, double check to make sure all the screws securing the logic board have been removed.



#### Step 15

- Slide the logic board towards the dock connector and out of the iPhone.



#### Step 16

- Use a spudger to pry the battery up from the rear panel. The battery is attached with an adhesive strip around the perimeter of the battery. To prevent the battery from bending during the removal process, we recommend against using just the plastic pull-tab .